# PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT

# ROCK-TENN SITE
# 431 HELEN STREET
# CITY OF OTSEGO, ALLEGAN COUNTY, MICHIGAN




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**ROCK-TENN SITE**
**431 HELEN AVENUE**
**CITY OF OTSEGO, ALLEGAN COUNTY, MICHIGAN**

## 1.0 INTRODUCTION

On behalf of the Allegan County Brownfield Redevelopment Authority (ACBRA), Environmental Consulting and Technology, Inc. (ECT) conducted a Phase II Environmental Site Assessment (ESA) of a portion of the former Rock-Tenn property located at 431 Helen Avenue located in the City of Otsego, Allegan County, Michigan. A Site Location Map is presented as **Figure 1**. The Rock-Tenn property consisted of five (5) parcels encompassing 114.1 acres (Parcels A through E as shown in **Figure 2A** and is herein referred to as the "Subject Property". Records maintained by the City of Otsego indicated Mead Paperboard Products sold the property to Rock-Tenn Company, Mill Division (Rock-Tenn) in January 1988. Rock-Tenn sold the Subject Property to Cogswell Property, LLC (Cogswell) in September 2006. During Cogswell's ownership of the site, portions of the buildings were stripped of scrap materials including copper piping, scrap metal, and miscellaneous building materials. Additionally, Cogswell was cited for illegal discharge violations by the Michigan Department of Environmental Quality (MDEQ) for dismantling and cleaning transformers along with allowing uncontrolled release of transformer oils on the Subject Property. Subsequently, Cogswell abandoned the property and Allegan County acquired Parcels A and B (**Figure 2B**) through tax foreclosure in 2011.

This report documents field activities, sampling protocols, and laboratory results associated with ECT's investigation of a portion of the Subject Property that is located south of West River Street herein referred to as the Study Area. The Study Area was selected based on the greatest potential for redevelopment within the Subject Property. The scope of work for this site assessment was based on the findings of ECT's Phase I ESA for the Study Area, dated July 12, 2012 which was performed in conformance with the scope of limitations of ASTM Practice E 1527-05. The Phase I ESA revealed several Recognized Environmental Conditions (RECs) including:

REC 1 - The presence of over 250 drums and totes within the main subject building and the out building to the west of the main subject building of the Subject Property;
REC 2 - The former presence of waste water lagoons on the western portion of the Subject Property;
REC 3 - The potential presence of polychlorinated biphenyls (PCBs) due to former operations as a paper mill and by Cogswell for dismantling transformers and potentially releasing oil to the environment;
REC 4 - The presence of significant staining and oily sludge in pits throughout the main subject buildings potentially releasing oil to the soil and groundwater;
REC 5 - The presence of a diesel fuel aboveground storage tank (AST) in the fire suppression building located along the river bank and a former AST located east of the main buildings;
REC 6 - The presence of two closed Type III landfills on the portion of Subject Property north of West River Street; and

REC 7 - The presence of the Kalamazoo River Superfund site located along the southern boundary of the Subject Property.

The Phase II ESA was performed from February 5 through 7, 2013 using funds from of a United States Environmental Protection Agency (U.S. EPA) Brownfield Assessment Grant for Hazardous Substances. This grant was awarded to Allegan County, Michigan in April 2010. The Phase II ESA was conducted in accordance with ECT's Phase II Sampling and Analysis Plan (SAP) dated January 16, 2013 which was approved by the U.S. EPA Region 5 Brownfield Project Manager on January 16, 2013. The Phase II ESA Study Area was comprised of approximately 36 acres owned by Allegan County via tax foreclosure and within a fenced-in area encompassing the buildings and former waste water lagoons (**see Figure 2B**). This area is bounded by West River Street to the north, John Street and Helen Avenue to the east, a mini-storage facility to the west, and Kalamazoo River to the south. The Phase II ESA did not evaluate Parcel A and the former poly waste disposal or the former mill waste landfill areas (REC 6) that are located north of West River Street nor the Kalamazoo River Superfund Site (REC 7) south of the Study Area which has been assessed by the US EPA. **Figure 3,** the Site Layout Map with Sample Locations, depicts the Phase II ESA Study Area and individual REC locations. **Figures 4 through 8** depict sample locations and analytical results for the subsurface borings related to each REC and **Figure 9** depicts the building layout located in the Study Area.

## 2.0 BACKGROUND

## 2.1 SITE DESCRIPTION AND FEATURES

The Subject Property is located at 431 Helen Avenue in the City of Otsego, Allegan County, Michigan. Records maintained by the City of Otsego state that the Study Area is comprised of Parcel A south of West River Street and Parcel B totaling approximately 36 acres. The Subject Property Study Area is bound by the Kalamazoo River to the south, West River Street to the north, John Street/vacant land to the east, and vacant land to the west The Study Area houses an industrial building (the main subject building), two outbuildings, asphalt-paved and gravel parking and driveway areas, cement pads, and grassy landscaped areas. The investigation area includes buildings with approximately 282,000 $ft^2$ of roof coverage and 474,650 $ft^2$ of floor space. The portion of Parcel A of the Subject Property that is located north of West River Street is comprised of approximately 11 acres which likely contained a portion of the former mill waste landfill and former poly waste disposal areas which are not part of the Study Area.

The Power House on the Subject Property was boarded up (U.S. EPA Emergency Response Action), and labeled ASBESTOS Hazard. The Power House is a two floor structure with the main floor supporting two coal fired boilers, with supporting evidence that a third boiler may have existed in the past. Some of the "I" and "H" support beams, pipe chases, and walkways have been cut and removed rendering large sections of the building structurally unsound.



*Collapsed Floor/Removed Supports (Power House and Generator Room)*

**Figure 9** identifies the former paper mill supporting warehouse, manufacturing area, manufacturing support area, and office space(s):

Paper Mill – A through Z-5
Warehouse - A, B, C, E, G, E-1 through E-3
Manufacturing - F, H, I, J, K, L, M, N, P, Q, S, & T
Manufacturing Support - D, O, U, V, W, X, Y, Z through Z-5
Office - P Floor 3 &, R

Some floors, walls and their supports have been removed/destroyed/collapsed in order to gain access into lower floors to remove recyclable metals products throughout the mill. As such besides the Power House & Generator Room, Mills J, K, L and M are structurally unsound:



*Collapsed Floor and Removed Supports (J, K, L and M)*

The following aerial photograph outlines the areas within Parcel A which are considered structurally unsound.



## 2.2 PHYSICAL SETTING

The northern boundary of the Study Area is north of Helen Avenue and south of West River Street. The Subject Property situated north of West River Street is vacant and likely contains the abandoned mill waste and poly waste disposal areas which are not part of the Study Area. Residential properties adjoin the mill waste areas on the east and southwest corner. The remaining property west and north of the mill waste areas appears to be agricultural or wooded. The eastern portion of the Study Area is bounded by Helen Avenue and John Street. The western property appears as a storage facility and agricultural land. The property to the east is industrial and residential property. The southern boundary of the Subject Property is the Kalamazoo River.

## 2.3 HYDROGEOLOGICAL SETTING

The following subsections present the regional geologic setting based on available published information. The United States Geological Survey (USGS) 7.5-minute series quadrangle map of Otsego, Michigan were obtained from an Environmental Data Resources, Inc.(EDR) database dated 1967 and photo revised in 1973.

### 2.3.1 Topography and Surface Water Drainage

Based on a review of the United States Geological Survey (USGS) 7.5-minute series quadrangle map of Otsego, Michigan, dated 1967 and 1967 (photo revised 1973) the elevation of the Subject Property is between 730-ft to 740-ft above mean sea level. The topographic gradient trend is northwest and the regional surface water flow is governed by the Kalamazoo River flowing northwesterly toward Allegan, Michigan.

### 2.3.2 Regional Geology

According to the map of *Quaternary Geology of Southern Michigan*, prepared by the University of Michigan's Department of Geological Science (dated 1982), the Subject Property is situated on "end moraines of coarse-textured till." End moraines with coarse-textured till that were described as typically gray, grayish brown or reddish brown, non-sorted glacial debris. Its matrix is dominantly sandy clay loam, sandy loam, or loamy sandy texture, and locally resembles outwash except for occasional non-sorted clayey or silty lenses and lack of stratification. End moraines with coarse-textured till contains variable amounts of cobbles and boulders and occurs in narrow belts of hummocky relief marking former still stands of ice-sheet margin. It also includes small areas of ground moraines and outwash. Its thickness tends to be somewhat greater than adjacent ground moraine areas.

## 2.4 SUBJECT AND SURROUNDING PROPERTY HISTORY AND LAND USE

Information from ECT's Phase I ESA, is based on the review of historical documentation including, but not limited to, aerial photographs, Sanborn maps, government records, interviews, and database research. The Subject Property was initially developed as a paper mill in the early 1900s with multiple additions up to the 1950s. The resulting subject building is an assemblage of over 15 individual structures that have become one large building. Records maintained by the City of Otsego state that the sum total of the interior floor space of the main subject building is approximately 180,000 square feet. The western portion of the Subject Property has been undeveloped and/or used as wastewater lagoons; all of which are capped. The west adjoining property has been utilized for residential and agricultural purposes since at least 1911. The southern boundary of the Subject Property is the Kalamazoo River. Residential property and a waste water treatment plant have been historically located across the River. The eastern adjoining properties were historically developed with paper product related industry. Wolverine Paper manufactured waxed paper on the southeast adjoining property which was owned by Mac Sin Bar Paper, the original owner of the Subject Property. The northeast adjoining property was owned by Allegan Paper Mills which produced coated paper.

## 2.5 PREVIOUS ENVIRONMENTAL INVESTIGATIONS

In July 2006, Global Environmental Engineering, Inc. (GEE) of Flint, Michigan performed a Phase I ESA for "Cogswell Romulus Properties, LLC". The GEE Phase I ESA report identified the following five RECs: Former retention basins, documentation indicating low-level PCB contamination, residual chemicals located within the manufacturing building, visible residual oils and sludge contained in a press pit within the manufacturing building, and two Type III landfill cells on the northern portion of the Subject Property, north of West River Street. Their Phase I ESA report also identifies offsite RECs associated with the ongoing Superfund investigation and remedial action for PCB and dioxin impacts in the sediments of the Kalamazoo River.

Superfund Technical Assessment and Response Team (START) intervention was requested by the County to assess the stored waste drums found inside the building and throughout the Subject Property by ECT during the Phase I ESA site inspection. The Site Assessment Report was completed by Oneida Total Integrated Enterprises (OTIE). Following is the Summary section of the START Site Assessment Report of January 18, 2012 which was completed on behalf of Allegan County.

> On November 16 and 17, 2011 and December 14, 2011, U.S. EPA and START conducted a site assessment at the Rock-Tenn Site in Otsego, Michigan. Field screening tests were conducted to analyze several drums found in the building prior to sampling. During sampling, liquid drum and surface soil samples were collected and submitted for pH, flashpoint, total and TCLP VOCs and SVOCs, and PCB analyses.
>
> Sample analytical results were evaluated against the criteria of characteristics of hazardous waste (40 CFR, Sections 261.20 through 261.24). Drums and totes containing acidic compounds and bags containing basic compounds were observed in the main site building and may pose a threat of release. Clear signs of trespassing and vandalism are also observed inside and outside the Site building.

Based on the results of the START assessment, all stored waste drums were removed by Rock-Tenn in March of 2012.

# 3.0 LOCAL GEOLOGY AND HYDROGEOLOGY

## 3.1 LOCAL SUBSURFACE GEOLOGY

Thirty-two direct push borings were advanced as part of this Phase II ESA investigation. A 6600 ATV Geoprobe® rig was utilized to complete the soil boring program described herein. Vertical soil profile samples were collected continuously using a pneumatic hammer and a 2-inch diameter, 5.0-foot long, macro sampler designed to collect discrete soil samples within a clear poly-ethylene liner. Sampling commenced at the ground surface and continued to the terminus of each boring. The collected soil was examined and field classified using the Unified Soil Classification System (USCS). The soil samples were field screened for the presence of volatile organic compounds (VOCs) using a photo-ionization detector (PID). All Geoprobe® equipment that came into contact with the subsurface soil was cleaned using high-pressure water prior to use and between each soil boring location and soil sample interval. Soil boring logs are contained in **Appendix A.**

## 3.2 LOCAL HYDROGEOLOGY

Groundwater samples were collected from nine boreholes (RT-GB-1W through RT-GB-9W). Groundwater saturation varied from approximately 7- to 17.5-ft below surface grade (bsg). The saturated zone soils were described as fine to coarse sand with intermittent lenses of gravel. A confining clay layer was not encountered during this investigation. It is assumed that the local groundwater flow direction is influenced by the Kalamazoo River and glacial sediment deposits.

# 4.0 SITE INVESTIGATION ACTIVITIES

## 4.1 SCOPE OF WORK

The scope of work for the Phase II ESA was to evaluate the Study Area for the presence of environmental contamination, and, if present, determine if contaminant concentrations exceed

the Michigan Department of Environmental Quality's (MDEQ) Generic Residential Cleanup Criteria (GRCC) developed under the authority of Part 201 of the Natural Resources and Environmental Protection Act (NREPA), 1994 P.A. 451, as amended (Part 201). If target chemicals are detected at concentrations exceeding the current MDEQ Generic Residential Cleanup Criteria, the Study Area would be deemed a "*facility"* as the term is defined in Part 201 of the NREPA. Additionally, an asbestos containing materials (ACM) survey and universal waste assessment activities were conducted as part of this investigation.

The following scope of work was established to evaluate the RECs identified in connection with the Study Area:

- Advance 32 soil borings to various depths ranging from five feet below surface grade (bsg) to the groundwater interface at approximately 10-feet bsg to assess potential impacts from the long term historical use of the property as a paper mill.
- Install temporary monitor wells at 9 locations.
- Collect up to 34 soil and 9 groundwater samples. Some soil samples (as described in Section 3.0) will be collected at the surface (within 1' of the ground surface) to assess potential surface releases.
- Collect soil and groundwater QA/QC samples in accordance with the QAPP based on the number of samples collected.
- Submit the collected soil and groundwater samples to a fixed-base, independent laboratory for chemical analysis of one or more of the following parameters: volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), 10 Michigan metals and the metals boron, magnesium, iron, thallium, and polychlorinated biphenyls (PCBs).
- Visually inspect and collect potentially asbestos containing materials (ACM) samples in the thirty (30) buildings referenced as (A through Z-5 and Power House) at the facility and determine (if needed) the appropriate actions to be taken to abate the ACM.
- Conduct a universal waste inventory.

The goal of the Phase II ESA was to evaluate the Study Area for the presence of environmental contamination and if present, determine if contaminant concentrations exceed the MDEQ GRCC. The intent was not to fully delineate the potential contamination, but rather to identify specific conditions and how it might adversely impact planned future site uses. **Figure 3** depicts the Study Area, the RECs identified in the Phase I ESA, and Phase II ESA targeted investigative area.

## 4.2 FIELD EXPLORATION AND METHODS

### 4.2.1 Sampling Procedures

Sample collection, handling, transportation, and laboratory analysis were conducted in accordance with procedures outlined in the January 2011 "*Quality Assurance Project Plan (QAPP) prepared for Allegan County.*" This includes the collection of Quality Assurance/Quality Control (QA/QC) samples including (1) field duplicate samples, (2) matrix spike/matrix spike duplicate samples (triple volume of sample), (3) VOA trip blanks, and (4) equipment blanks.

### 4.2.2 Soil

ECT and Fibertec Environmental Services (Fibertec) began the Phase II ESA field activities on February 5, 2013. The Phase II ESA was performed to evaluate the RECs identified in ECT's Phase I ESA. ECT and Fibertec advanced 32 soil borings to various depths ranging from 5-feet below surface grade (bsg) to approximately 20-feet bsg to assess potential impacts from the long term historical use of the property as a paper mill.

Soil borings were completed in accordance with the "*Standard Guide for Direct Push Soil Sampling for Environmental Site Characterizations,"* ASTM Designation D-6282. Soils were field screened continuously using a PID. Soil samples for laboratory analysis were collected from each soil boring based on field screening results, visual observations and/or significant changes in soil type(s). The total depth of borings was determined by field observations (i.e. PID reading, soil stratigraphy, encountering a confining layer or encountering groundwater).

*REC 1*

Four Geoprobe® borings (RT-GB-16 through RT-GB-19) were advanced in the vicinity of the former drum storage location. Borings RT-GB-16 through RT-GB-18 were advanced to a depth of 10-feet bsg and RT-GB-19 was advanced to 15-feet bsg. Soil samples were collected at intervals that appeared to be impacted based on visual, olfactory, and field screening evidence. **Figure 4** depicts detailed sampling and contaminant locations near the former drum storage building.

*REC 2*

Two Geoprobe® borings (RT-GB-8 and RT-GB-9) were advanced downgradient of the former wastewater lagoons. Borings were advanced to 20.0-feet bsg in order to describe soil conditions, collect soil samples from each boring location and install temporary wells for groundwater sampling. Soil samples were collected from the capillary fringe above the water table, or based on field observation or field screening evidence. **Figure 5** depicts the approximate sampling and contaminant locations of RT-GB-8 and RT-GB-9.

*REC 3*

Nine Geoprobe® borings (RT-GB-24 through RT-GB-32) were advanced in the suspected transformer dismantling area. Borings were advanced to a depth of 5-feet bsg. Soil samples were collected at near surface (0-1') and at 4- to 5-feet bsg to assess potential impact from surface releases. Soil samples at the near surface interval were submitted for analysis, while samples collected at the 4 to 5-foot interval were placed on hold pending the results of surficial samples. **Figure 6** depicts detailed sampling and contaminant locations within the suspected transformer dismantling area.

*REC 4*

Four Geoprobe® borings (RT-GB-12 through RT-GB-15) were advanced in the vicinity of surficially impacted areas identified in ECT's Phase I ESA. These borings are located along the outer northwestern corner of the manufacturing building. Borings RT-GB-13 and RT-GB-14 were advanced to 5-feet bsg, while borings RT-GB-12 and RT-GB-15 were advanced to 10-feet bsg. Soil samples were collected based on PID readings, olfactory or visual evidence, or from the capillary fringe. **Figure 7** depicts the approximate sample and contaminant locations of RT-GB-12 through RT-GB-15.

Two Geoprobe® borings (RT-GB-6 and RT-GB-7) were advanced between the building structures along a vehicle access dock located on the west side of the main building and visually downgradient of heavy oil staining within the main manufacturing building. These borings were advanced to approximately 8-feet bsg. Each Geoprobe boring was converted into a temporary monitor well to sample the groundwater. **Figure 7** depicts the approximate sampling and contaminant location of RT-GB-6 and RT-GB-7.

Five Geoprobe® borings (RT-GB-1 through RT-GB-5) were advanced along the southern Subject Property boundary to assess downgradient groundwater quality south of the manufacturing building. Each Geoprobe® boring was converted into a temporary monitor well to sample the groundwater adjacent to the Kalamazoo River. **Figure 7** depicts the approximate sampling and contaminant locations of RT-GB-1 through RT-GB-5 temporary monitor well locations.

*REC 5*

Six soil borings were advanced in relation to the petroleum usage areas on the Subject Property to assess potential impact from the diesel AST. Two borings (RT-GB-11 and RT-GB-12) were advanced to 10-feet bsg in the vicinity of the former large AST that was located east of the manufacturing building and borings (RT-GB-20 through RT-GB-23) were advanced in the vicinity of the fire suppression pump house area. Borings RT-GB-20 and RT-GB-22 were advanced to 10-feet bsg and RT-GB-21 and RT-GB-23 were advanced to 5-feet bsg. **Figure 8** depicts the approximate sampling and contaminant locations for the former ASTs for the Study Area.

There was no field exploration of RECs 6 and 7 within this Phase II ESA.

*QA/QC*

Field duplicate samples were collected from soil and groundwater samples obtained from the proposed temporary monitor wells. Remaining Quality Assurance/Quality Control (QA/QC) samples (i.e., matrix spike/matrix spike duplicate, equipment blanks, and VOA trip blanks and method blanks [provided by the lab]) were collected as outlined in the Allegan County BRA QAPP.

Laboratory analyses and procedures for soil and groundwater were conducted by ALS Laboratory Group (ALS) of Holland, Michigan.

Samples collected were submitted under chain-of-custody to ALS for laboratory analysis. The following table shows the estimated number of borings, samples, and laboratory analysis performed for each REC. Select samples collected were placed on a “hold” status pending the outcome of analytical results from samples collected from the same boring.

## Summary of Sample Locations and Laboratory Analysis

| Evaluated REC(s) | Proposed # of Borings | Anticipated Matrix | Anticipated Laboratory Analytical Parameter(s) |
|---|---|---|---|
| REC 1 – Warehouse with drum storage. | 4 soil borings | 4 soil | VOCs and SVOCs |
| REC 2 – The former presence of wastewater lagoons on the western portion of the Study Area. | 2 soil borings & 2 temporary wells | 2 soil & 2 groundwater | VOCs, SVOCs, MI 10 Metals + B, Mg, Fe, Tl |
| REC 3 – Suspected transformer dismantling area. | 9 borings | 18 soil | PCBs |
| REC 4 - Surficially stained areas identified during site reconnaissance associated with historical property use. | 4 soil borings | 4 soil | VOCs and SVOCs (Metals only on one sample) |
| REC 4 – The presence of contaminants adjacent to the Kalamazoo River located along the southern boundary of the Subject Property. | 5 soil borings & 5 temporary wells | 5 groundwater | VOCs and SVOCs |
| REC 4 – The presence of heavy oil staining throughout the main manufacturing facility. (Hazardous Substances). | 2 soil borings & 2 temporary wells | 2 groundwater | VOCs and SVOCs |
| REC 5 – The historical & current presence of ASTs at the Study Area. | 6 soil borings | 6 soil | Light Distillate Oils |
| QA/QC Duplicate | | 3 soil 1 groundwater | Refer to select sample origin |
| QA/QC Equipment Blank | | 1 water | VOCs, SVOCs, MI 10 metals + B, Mg, Fe, Tl |
| QA/QC Trip Blank | | 1 per cooler | VOCs |
| QA/QC MS/MSD | | 2 soil 1 groundwater | Refer to select sample origin |

Note: Borings will be numbered in accordance with Section 2.3.1.2 of the ACBRA QAPP

Laboratory analysis was performed on the QA/QC samples collected during field activities. The QA/QC samples (field duplicate, matrix spike/matrix spike duplicate) were analyzed based on select parameters from samples collected during the field. The analyses of remaining QA/QC are outlined in ECT's QAPP for Allegan County BRA.

### 4.2.3 Groundwater

On February 6, 2013, ECT field personnel began collecting groundwater samples from temporary wells installed on February 5, 2013. The depth of the groundwater ranged across the Study Area from approximately 7-feet to 17.5-feet bsg.

Temporary wells were installed in soil borings RT-GB-1 through RT-GB-9. The temporary wells were constructed of 1.0-inch inside diameter polyvinyl chloride (PVC) screens and riser pipe. The screen slot size was 0.010-inch (10-slot) with 5-foot lengths utilized for each temporary well screen and riser pipe extension. RT-GB-8 used a 10-foot length of screen was utilized based on an unclear field evaluation of soil saturation interval and apparent soil staining.

Groundwater sampling was accomplished utilizing a peristaltic pump and low-flow purge methods as described in the ACBRA QAPP. Groundwater was monitored using a flow-through cell and YSI multi-parameter probe to ensure that formation water is to be sampled upon stabilization of groundwater. Groundwater characteristics, such as, temperature, specific conductance, pH, dissolved oxygen, oxidation/reduction potential, and turbidity were recorded to determine groundwater stabilization within the well. When the groundwater parameters are relatively stable the groundwater is sampled, placed in laboratory supplied containers that contain the appropriate groundwater preservative and placed in a cooler containing ice.

## 4.3 QUALITY ASSURANCE/QUALITY CONTROL

To ensure the accuracy of data collected during on-site activities, ECT implemented proper QA/QC measures. The QA/QC procedures included, but were not limited to: (1) decontamination of sampling equipment before and between sampling events, (2) calibration of field equipment, (3) documentation of field activities, (4) sample preservation techniques, and (5) the collection of QA/QC samples. QA/QC samples are highlighted on the Sample Tracking Log provided at the end of **Appendix B**.

### 4.3.1 Decontamination of Equipment

During sample collection, ECT adhered to proper decontamination procedures. Sampling equipment was decontaminated using the following methods to minimize potential cross-contamination of soil samples by washing and scrubbing the equipment with non-phosphate detergent (Alconox), double rinsing the equipment with distilled water, and air-drying the equipment.

### 4.3.2 Calibration of Field Equipment

During the Phase II ESA, PID was used to field screen the soil samples for the presence of VOCs. The PID is maintained in a calibrated condition using 100 ppm isobutylene span gas prior to site investigations in accordance with procedures outlined in ECT's Standard Operating

Procedure-five (SOP-5) "*Photo-ionization detector use and calibration"* in the Allegan County QAPP.

### 4.3.3 Documentation of Activities

Study Area conditions (i.e. soil boring locations, weather conditions) were documented during the Phase II ESA activities. ECT visually inspected the soil and groundwater samples and prepared a geologic log for each soil boring. The logs include soil characteristics such as: (1) color, (2) soil type (e.g., sand, clay, or gravel), (3) soil moisture and estimated groundwater depth, and (4) signs of potential contamination (i.e., stained or discolored soil, odors). All soil samples were delivered on ice in a laboratory supplied cooler and delivered to ALS under chain-of-custody documentation.

### 4.3.4 Sample Preservation Techniques

ECT collected soil samples according to U.S. EPA Publication SW-846, *"Testing Methods for Evaluating Solid Waste."* Soil samples were collected in laboratory-supplied containers, stored on ice, and submitted under chain-of-custody documentation to ALS Laboratory Group (ALS) in Holland, Michigan. Groundwater samples collected for specific metals analyses were laboratory preserved with nitric acid ($HNO_3$).

## 4.4 LABORATORY ANALYSES AND METHODS

Twenty-six of thirty-four soils and nine groundwater samples were submitted for laboratory analyses of select parameters as outlined in Section 3.2. The laboratory analyzed soil and groundwater samples for: (1) Metals by U.S. EPA Methods 6020A and 7471; (2) VOCs by U.S. EPA Method 8260B, (3) SVOCs by U.S. EPA Method 8270; and (4) PCBs by U.S. EPA Method 8082

## 4.5 ADDITIONAL FOIA REVIEW

In the course of the Phase II ESA, ECT conducted additional file review under FOIA request to the State of Michigan, Department of Environmental Quality (MDEQ). The purpose of the file review was to determine if dioxin or furan investigation has ever been conducted at the site. The majority of files held by the MDEQ for the Rock-Tenn facility were related to wastewater monitoring, the lagoons, lagoon closure, and enforcement actions against a former owner. No records of dioxin or furan sampling were identified. Specifically, the August 2001 Lagoon Closure Sampling and Analysis Plan stated the site had never been used as a kraft paper mill and never used a bleaching process that generated chlorinated by-products.

# 5.0 SUBSURFACE INVESTIGATION ANALYTICAL RESULTS

## 5.1 REGULATORY CRITERIA

A "*facility"* is defined in Part 201 as "any area, place or property where a hazardous substance in excess of the concentrations which satisfy the requirements of section 20120a(1)(a) or (17) or the cleanup criteria for unrestricted residential use under part 213 has been released, deposited, disposed of, or otherwise comes to be located. Facility does not include any area, place, or property at which response activities have been completed which satisfy the cleanup criteria for the residential category provided for in section 20120a(1)(a) and (17) or at which corrective

action has been completed under part 213 which satisfies the cleanup criteria for unrestricted residential use." Therefore, laboratory analytical results of the soil and groundwater samples were compared to Residential Generic Cleanup Criteria.

## 5.2 SOIL ANALYTICAL RESULTS

ECT submitted twenty-six soils for laboratory analyses of the parameters outlined in Section 4.2. Laboratory analytical results indicated all target compound concentrations were below applicable MDEQ target detection limits (TDLs), or detected within applicable MDEQ Residential Generic Cleanup Criteria except for sampling locations: RT-GB-8, RT-GB-9, RT-GB-15, RT-GB-18, RT-GB-19, and RT-GB-21. Sampling locations RT-GB-8, RT-GB-9, RT-GB-15, and RT-GB-19 exceeded Part 201 Residential Cleanup Criteria for metals; meanwhile, sampling locations RT-GB-18, RT-GB-19, and RT-GB-21 exceeded criteria for SVOC/PAH parameters. Refer to **Table 1**, for a summary of soil results. Refer to **Table 3**, for a summary of soil QA/QC results. In addition, refer to **Appendix B** for the ALS laboratory analytical report.

## 5.3 GROUNDWATER ANALYTICAL RESULTS

ECT submitted nine groundwater samples for laboratory analyses of the parameters outlined in Section 3.2. Laboratory analytical results indicate all target compound concentrations were below applicable MDEQ TDLs except for groundwater samples RT-GB-8W and RT-GB-9W. RT-GB-8W and RT-GB-9W reported results exceeding MDEQ Residential Generic Cleanup Criteria for metals. Refer to **Table 2**, for a summary of the groundwater results. Refer to **Table 4** for a summary of groundwater QA/QC results. In addition, refer to **Appendix B** for the ALS laboratory analytical report.

# 6.0 ASBESTOS SURVEY AND UNIVERSAL WASTE INVENTORY

## 6.1 DEFINITION OF TERMS AND SPECIAL NOTICE

The following terms/abbreviations are defined and understood to be used (herein) compliant with the definitions established by the United States Environmental Protection Agency's publication, "Asbestos Hazard Emergency Response Act".

"Asbestos" includes the minerals, chrysotile, crocidolite, amosite, anthophyllite, tremolite, and actinolite or any of these minerals that have been chemically treated and/or altered.

"Asbestos-Containing Material (ACM)" means any material containing more than one-percent asbestos by weight.

"Asbestos-Containing Building Material" (ACBM) refers to surfacing, thermal system insulation, or miscellaneous building materials that are composed of asbestos of any type and in an amount greater than one-percent by weight.

"Functional Area" means a room, group of rooms, or homogeneous materials designated by a person accredited to perform inspections, prepare management plans, design abatement projects, or conduct response actions.

***Special Notice: Pursuant to Michigan statutes; specifically Part 305, the "Asbestos for General Industry Standard" and Part 602, the "Asbestos Standards for Construction", both standards require building owners/operators to conduct a thorough asbestos building survey if their structures were constructed prior to 1981. This survey must identify the presence, location, and quantity of ACM and/or presumed asbestos-containing material (PACM) within their building structures. Building materials presumed to contain asbestos (prior to 1981) include thermal system insulation (e.g., applied to pipes, fittings, boilers, breeching, tanks, ducts, or other structural components to prevent heat loss or gain) and surfacing material (e.g., sprayed, troweled-on, or otherwise applied to surfaces for acoustical, fireproofing, and/or other purposes). It also includes asphalt and vinyl flooring materials. Contractors can only rebut the designation of a PACM by providing material sampling and laboratory analysis performed in accordance with Part 602, 1926.1101 (k)(5).***

In conformance with the above-referenced Michigan standards, building structures constructed after 1981 are not required to have an ACM inspection prior to renovation/demolition. The Rock-Tenn building structures were all constructed prior to 1981. A building layout for the Study Area is depicted in Figure 9.

## 6.2 FIELD ACTIV1TIES

### 6.2.1 Field Personnel

The buildings (Est. 1940's through 2004) were inspected/surveyed during April/May 2013 by Asbestos Inspector Michael T. Hebert (Michigan Accreditation No. A40056, Expiration Date 06/02/2013). Mr. Hebert is accredited by the Michigan Department of Labor and Economic Growth (MDLEG) as an Asbestos Building Inspector; see **Appendix D**.

### 6.2.2 Review of Documents

Local government agencies were contacted to gain site information, however no data was identified. A few site diagrams were found in the building structures which conveyed limited data.

## 6.3 BUILDING AREA INSPECTION

### 6.3.1 Interior

Homogeneous building areas were identified based upon age/construction matrix. The condition of each buildings area was photographed, (reference **Appendix D**). Each building was measured and a field diagrams were prepared, (**Appendix E**). Construction materials and special items of concern were logged on Field Assessment Logs (**Appendix F** and/or presented on the field diagrams in **Appendix E**).

The building's interior was divided in to multiple areas:

| Building ID | Floors | Building Roof Cover ft² | Building Inside Space ft² | Building Description |
|---|---|---|---|---|
| Power House | 2 | 8,220 | 17,250 | Power Production |
| A | 1 | 32,600 | 32,600 | W |
| B-1 | 1 | 6,400 | 6,400 | W |
| B-2 | 1 | | | |
| C & D | 2 | 24,400 | 36,400 | W/MS |
| E-1 thru E-4 | 1 | 23,500 | 23,500 | W |
| F | 1 | 16,800 | 16,800 | M |
| G | 1 | 25,500 | 25,500 | W |
| H | 1 | 8,200 | 8,200 | M |
| I | 1 | 9,800 | 9,800 | M |
| J | 3 | 4,200 | 12,600 | M |
| K | 3 | 4,000 | 12,000 | M |
| L | 3 | 15,500 | 46,500 | M |
| M | 2 | 24,000 | 48,000 | M |
| N | 6 | 10,500 | 53,000 | M |
| O | 2 | 5,400 | 8,000 | MS |
| P & Q | 3 | 24,000 | 54,000 | M/O |
| R | 2 | 6,000 | 12,000 | O |
| S | 3 | 8,500 | 23,020 | M |
| T | 1 | 7,200 | 7,200 | M |
| U | 2 | 6,050 | 9,650 | MS |
| V & X | 1 | 8,628 | 8,628 | MS |
| W | 1 | 256 | 256 | MS |
| Y | 1 | 150 | 150 | MS |
| Z-1 & Z-5 | 2 | 2,605 | 3,200 | MS |

W – Warehouse Space
M - Manufacturing Space
MS - Manufacturing Support Space
O – Office Space

The ACM inspection of the building(s) interiors was conducted by an accredited inspector who visually identified media that may be considered ACMs and/or potential ACMs. As such these identified media(s) were respectively sampled and relinquished to a NVLAP laboratory for third party analyses. A total of **158 samples** were relinquished, with the specific comment, stating that if multiple samples were relinquished from a functional area and a sample was reported positive for asbestos (greater than 1%) then the remaining samples from said group were not required to be sampled, based upon the homogeneous nature.

Sample Identification names are listed on Chain of Custody Records (90429, 90430 and 122401 through 122416) and are presented as **Appendix F**. Sample locations are shown on the field

diagrams, (reference **Appendix E**). Media type sampled along with volume measurement information is presented in **Appendix F,** Field Assessment Logs.

In addition to that standard media(s) sampled, based upon the condition of the buildings, samples were also collected from the floor debris to confirm the inspections interpretations of the media.

*Inspectors – Comments*

*The paper mill and power plant have been stripped of metal structures, (very little steel pipe/equipment remaining in the mill or power house.) The party removing the metal (assumed salvage value) broke holes in the floor/walls to again excess in portions of the buildings to reclaim the metal in the buildings. All the copper, transformers, one of the boilers, both generators have been removed from the facility.*

*It appears that the Rock-Tenn facility while in operation was removing/abating ACM/Thermal System Insulation (TSI) from the mill portion of the facility, or said potential TSI was removed by the party salvaging the metal from the buildings.*

*The Power House and Generator Room, show significant signs of physical removal of ACM/TSI and simple piling/discharge of asbestos materials to the interior portions of these buildings. ASBESTOS labels were found around the floor debris. Furthermore, the two remaining boilers support a large volume TSI, and as such it must be suspected that the TSI from the third boiler (removed) is part of the floor debris.*

*Labels* *Floor Debris* *Third Boiler Location*




### 6.3.2 Exterior

A visual assessment of all exterior potentially ACMs was performed. The inspector did not visually identify materials that were suspect ACM and/or of asbestos containing building materials (ACBM). The building is structurally comprised of wood, concrete, brick, and metal. Windows are aluminum framed with no caulking or glass or glass only, sandwiched between wood or brick with no caulking. It was observed that over 50% of the windows within the plant are missing.

The subject buildings exteriors are finished with brick, concrete block, poured concrete and/or metal. The building(s) interiors with the exception of Building R (standard wood frame construction) are comprised of brick/concrete or metal.

The inspector collected samples of roofing material based upon the age of the roof and the likelihood that the asphalt roofing material may contain ACM. A summary of roof areas and construction materials are presented below:

| Building ID | Description | Building Sq. Ft |
|---|---|---|
| Power House | White Rubber, Black Woven - Fiberglass | 8,220 |
| A | Black/Silver, Asphalt | 32,600 |
| B-1 | Metal | 6,400 |
| B-2 | Metal | |
| C & D | Black, Shingles Asphalt | 24,400 |
| E-1 thru E-4 | Metal | 23,500 |
| F | Metal | 16,800 |
| G | Black, Asphalt | 25,500 |
| H | Black, Asphalt | 8,200 |
| I | Black, Asphalt | 9,800 |
| J | Black, Shingles Asphalt | 4,200 |
| K | Black, Shingles Asphalt | 4,000 |
| L | No Roof - Fire | 15,500 |
| M | White Rubber, Black Woven - Fiberglass | 24,000 |
| N | Black, Shingles Asphalt | 10,500 |
| O | Black, Shingles Asphalt | 5,400 |
| P & Q | Black, Asphalt | 24,000 |
| R | Black, Shingles Asphalt | 6,000 |
| S | Black/Grey, Shingles Asphalt | 8,500 |
| T | Same as S | 7,200 |
| U | Black, Asphalt | 6,050 |
| V & X | Black, Asphalt | 8,628 |
| W | Metal | 256 |
| Y | Black, Asphalt | 150 |
| Z-1 & Z-5 | Mix, Concrete/Tar/Metal | 2,605 |
| | | |
| | Total Building Area (Roof Line): | 282,409 |

As such, **36 samples** were collected and relinquished to a third part laboratory for analysis.

## 7.0 ACM ANALYTICAL DATA

On May 21, 2013, ECT received analytical data for the bulk material samples submitted to Fibertec Industrial Hygiene Services, Inc. for analysis. These samples were analyzed for asbestos via EPA 600/R-93/116 Method using Polarized Light Microscopy. The reported results with respect to the percent of asbestos, fibers, and non-fibrous materials are presented in **Appendix H**.

**In summary; 21 samples submitted support asbestos greater than 1% or defined as PACM by the inspector:**

| Building ID | Floor | Description | ACM Type | Percent |
|---|---|---|---|---|
| A | 1 | Brown tabular material, floor tile | Chrysotile | 3 |
| A | roof | Black tabular material, Building A, roof-2 | Chrysotile | <1 |
| C&D | roof | Black tabular material, Building C&D, roof-1 | Chrysotile | 35 |
| P&Q | roof | Black tabular material, Building P&Q, roof-1 | Chrysotile | 7 |
| V&X | roof | Black tabular material, Building V&X, roof-1 | Chrysotile | 7 |
| O&A | 1 | Tan tabular material, Building O&A | Chrysotile | 3 |
| L-2 | 2 | White fibrous material, Building L-2, debris-1 | Chrysotile | 35 |
| P&Q | 3 | Tan tabular material, Building P, Office floor tile-1 | Chrysotile | 3 |
| R | 1 | Brown fibrous material, Building R, pipe cover | Chrysotile | 30 |
| Power House | 2 | White granular material, Power House-2, debris-3 | Amosite | 15 |
| Power House | 2 | Pink fibrous material, Power House exterior insulation, furnace | Chrysotile | 10 |
| Power House | 1 | White fibrous material, Power House-1, debris-2 | Chrysotile | 4 |
| Power House/Gen. Room | 1 | Brown fibrous material, Power House, gen 8" pipe insulation (Labeled Asbestos) | PACM | |
| Power House | 1 | Brown fibrous material, Power House, gen 24" pipe insulation-2 | Amosite | 10 |
| Power House | 2 | Brown fibrous material, Power House, insulation behind steel covers | Chrysotile | 45 |
| Power House | 2 | Gray granular material, Power House, second heat coil, exterior-1 | Chrysotile | 15 |
| Power House | 2 | Gray granular material, Power House, furnace brick/mortar-2 | Chrysotile | 5 |
| Power House/Gen. Room | 1 & 2 | White fibrous material, Power House, gen+48, debris-1 | Amosite | 12 |
| Power House | 2 | Brown fibrous material, Power House, gasket steam coils-1 | Amosite | 10 |
| Power House | 2 | Inside Boiler 1 & 2, misc. ACM debris | PACM | |
| Power House | 2 | Inside Boiler 1 & 2, misc. ACM gaskets | PACM | |

A summary table is presented in the table section of this document;

Summary of reported ACM or PACM - supporting information is presented in **Table No. 6** for the 21 samples indicating the presence of asbestos:

- Room ID
- Floor
- Sample ID
- Sheet (Reference Attachment 3)
- Description of matrix sampled
- Units/volume units
- ACM type
- Percentage
- Recommended actions to address the identified asbestos

The remaining analyzed samples did not indicated asbestos concentrations greater than 1%, and were reported as "No Asbestos Reported" (NAD). No further actions are warranted for these sample locations based upon the ACM data reported in **Appendix H** and **Table 6.**

## 8.0 LIST OF POTENTIAL UNIVERSAL WASTES

Concurrent with the performance of the ACM assessment activities, a visual inspection and inventory of universal wastes and regulated/hazardous materials identified at the property/building(s) was conducted. The universal wastes and regulated/hazardous materials identified are commonly referred to as "items of concern"; accordingly, will require special handling and removal prior to demolition. A summary entitled "Summary of Special Wastes (Ex. ACM)" is provided as **Table 5**.

In summary the following items of concern were identified within the buildings:

- 390 PCB Ballasts (lights/small controls)
- 219 Mercury Lights
- 16 Above Ground Tanks/Processing Vats/Holding Pits
- 454 Fluorescent Light Tubes

Furthermore portions of the concrete floor in Building M are significantly discolored with suspected petroleum products. As such an estimated 3,830 ton of concrete will require sampling prior to demolition and disposal activities. Additionally, approximately 302,710 gallons of water is retained in the exterior holding tanks (Z-2 through Z-4) will require special sampling and appropriate handling prior to any disposal or demolition activities.

## 9.0 SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

### 9.1 PREVIOUS INVESTIGATION RESULTS

As presented in Sections 2.5 and 3.2, the following RECs were identified during the Phase I ESA. This Phase II ESA evaluated five of the seven RECs at the Subject Property and within the Study Area. The other two RECs were located outside of the Study Area.

### 9.2 SUMMARY OF SITE INVESTIGATION

On February 5 through February 7, 2013, ECT conducted a Phase II ESA to evaluate the RECs identified in ECT's Phase I ESA of the Subject Property. To evaluate the RECs, ECT: (1) advanced thirty-two Geoprobe® direct push soil borings to depths ranging from 5.0-feet to 20.0-feet bsg, (2) advanced nine temporary groundwater monitoring wells into select borings for sample collection, (3) collected thirty-four soil samples from select locations and submitted twenty-six for analysis, (4) collected nine groundwater samples from temporary wells, (4) collected QA/QC samples based on select number and parameters of samples collected in the field, and (6) submitted the samples for laboratory analyses.

In April and May of 2013, ECT conducted an ACM Survey and Universal Wastes Inventory to assist in the planning for building demolition.

## 9.3 CONCLUSIONS

The laboratory analytical results for RT-GB-8W and RT-GB-9W sampling locations indicate concentrations of barium, boron, iron, and zinc that exceed the current Part 201 Residential and Non-Residential Generic Cleanup Criteria and Screening Levels. These two samples appear to be downgradient from the former wastewater lagoons located on the western portion of the Study Area. It is ECT's opinion that these concentrations are associated with the wastewater lagoon.

The laboratory analytical results indicate that a limited number of SVOCs/PAHs and metals exceed the Part 201 Residential Generic Cleanup Criteria and Screening Levels in soil; specifically, sampling locations RT-GB-8, RT-GB-9, RT-GB-15, RT-GB-18, RT-GB-19, and RT-GB-21. Sample locations RT-GB-8, RT-GB-9 RT-GB-15, and RT-GB-19 were impacted with metals, while RT-GB-18, RT-GB-19, and RT-GB-21 were impacted with SVOCs/PAHs.

Based on the soil and groundwater laboratory analytical results, the Study Area is classified as a "facility".

Based on the ACM Survey and Universal Waste Inventory, the buildings at the Rock-Tenn facility contain significant amounts of ACM and Universal Wastes which will require abatement prior to demolition. ACM includes pipe insulation, floor tiles, roofing materials, uncontrolled waste debris on the floors and equipment, gasket materials, mortar, and materials inside boilers. Additionally, the building contains a significant number of PCB Ballasts (lights/small controls), mercury lights, above Ground Tanks/Processing Vats/Holding Pits, and Fluorescent Light Tubes.

## 9.4 RECOMMENDATIONS

ECT recommends a limited soil and groundwater investigation in the areas of RT-GB-15, RT-GB-18, RT-GB-19, and RT-GB-21 to ascertain if the identified SVOC/PAH and metals are isolated "hotspots" at the site. If additional sampling were performed in these areas the extent of SVOC/PAH impacts could be delineated and potentially remediated eliminating portions of the property designation as a "facility." Much of the property could be separated from the "facility" portions and utilized as residential property. Since locations RT-GB-8 and RT-GB-9 are located in the vicinity of the wastewater lagoons additional soil sampling is not recommended. However, during the Phase II ESA, ECT personnel identified five previously installed groundwater monitor wells on the perimeter of the wastewater lagoon. These wells could be utilized to further determine and delineate the groundwater quality and potential for offsite migration of potential contaminants.

Additionally, the ACM Survey and Universal Waste Inventory can be utilized to establish demolition specifications for the current site buildings.

# 10.0 REFERENCES

Listed below are documents utilized in the completion of this Phase II ESA. Data presentation, summaries, and conclusions in this Phase II ESA are general in nature and should not be considered apart from respective documents.

"*Environmental Remediation,*" Part 201 of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended.

"Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process," ASTM Designation E-1527-05.

"Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process," ASTM Designation: E-1903.

"Standard Guide for Direct Push Soil Sampling for Environmental Site Characterizations," ASTM Designation D-6282.

"Quality Assurance Project Plan-EPA Brownfield Assessment Grant-Allegan County," Environmental Consulting and Technology, Inc., January 2011.

## 11.0 LIMITATIONS AND GENERAL COMMENTS

The purpose of the Phase II ESA was not to fully delineate the extent of contamination, but to evaluate specific conditions based on the RECs identified in the Phase I ESA completed by ECT on July 12, 2012 for the Subject Property Study Area. The information and opinions obtained in this report are for the exclusive use of Allegan County Brownfield Redevelopment Authority. No distribution to or reliance by other parties may occur without the express written permission of ECT. ECT will not distribute this report without the written consent of the Allegan County Brownfield Redevelopment Authority, or as required by law or by a Court order. The information and opinions contained in the report are given in light of that assignment. The report must be reviewed and relied upon only in conjunction with the terms and conditions expressly agreed upon by the parties and as limited therein. Any third parties who have been extended the right to rely on the contents of this report by ECT (which is expressly required prior to any third-party release), expressly agrees to be bound by the original terms and conditions entered into by ECT and Allegan County Brownfield Redevelopment Authority.

Subject to the above and the terms and conditions, ECT accepts responsibility for the competent performance of its duties in executing the assignment and preparing reports in accordance with the normal standards of the profession, but disclaims any responsibility for consequential damages. Although ECT believes that results contained herein are reliable, ECT cannot warrant or guarantee that the information provided is exhaustive or that the information provided by the Allegan County Brownfield Redevelopment Authority, or third parties is complete or accurate.

Report submitted by:

Matthew Greenberg
Environmental Consultant

ACM Report Submitted by:

Michael T. Hebert
Asbestos Inspector - Accreditation No. A40056

Report reviewed by:

John J. D'Addona
Manager of Brownfield Services

October 25, 2013

# Figures

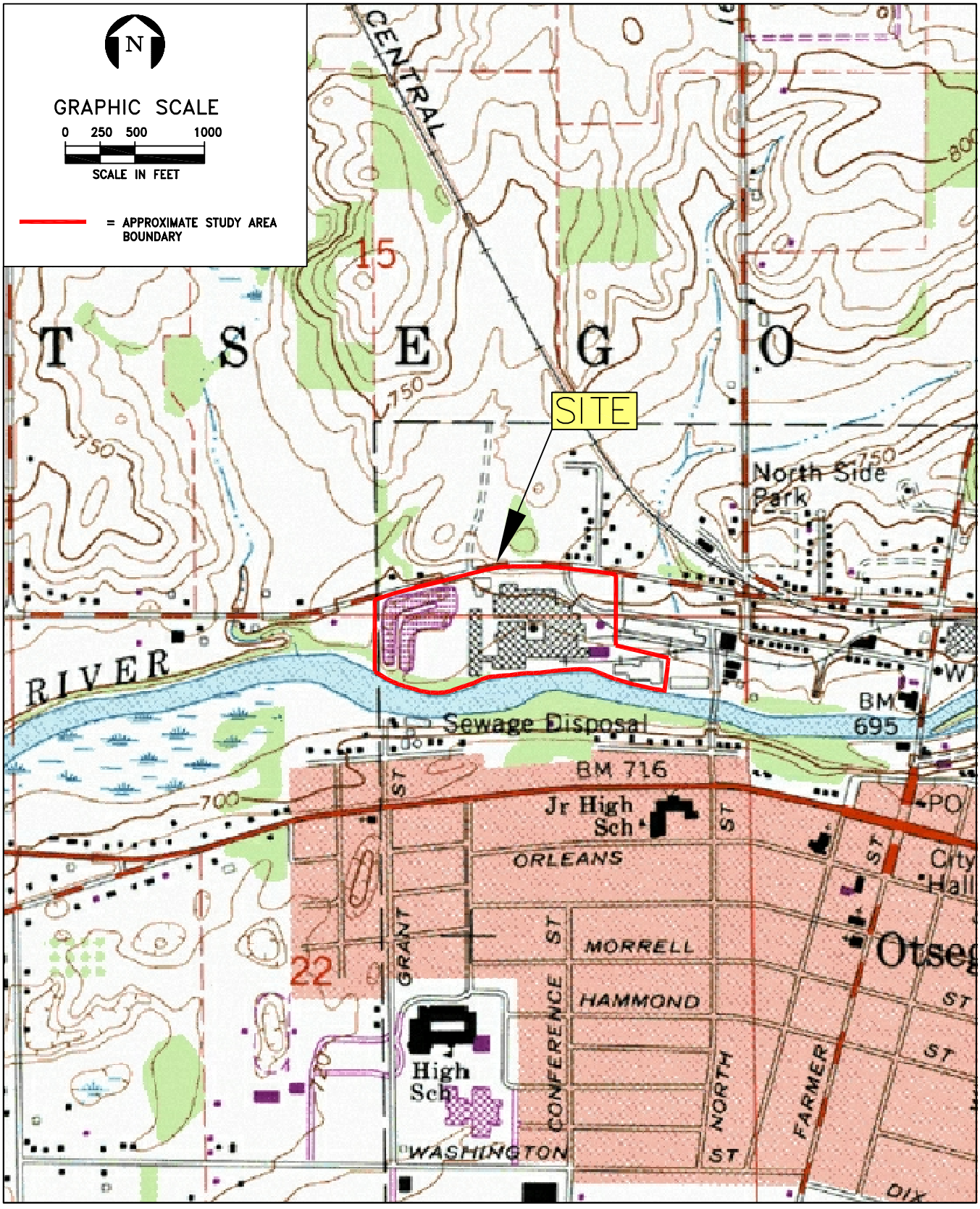


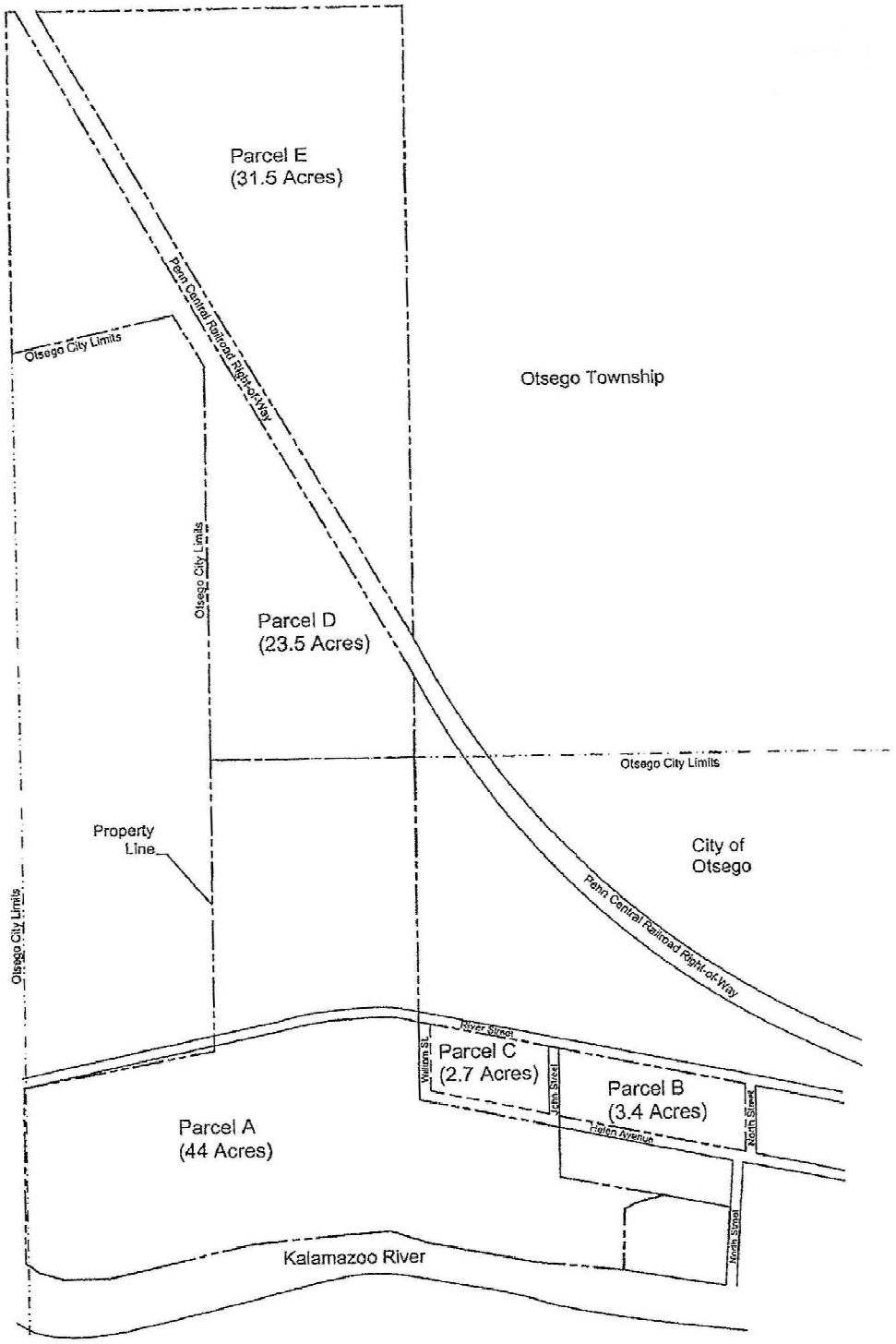

FIGURE 1.
SITE LOCATION MAP

Source: Maptech, 2001.

ROCK–TENN SITE
431 HELEN STREET
OTSEGO, MICHIGAN

ECT
Environmental Consulting & Technology, Inc.
2200 Commonwealth Blvd., Suite 300
Ann Arbor, Michigan 48105
Phone: 734–769–3004 Fax: 734–769–3164
www.ectinc.com

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N

GRAPHIC SCALE

0 300 600 1200

SCALE IN FEET

FIGURE 2A.

FORMER ROCK-TENN

SITE BOUNDARIES

Source: GOOGLE EARTH, 2012.

ROCK-TENN SITE

431 HELEN STREET

OTSEGO, MICHIGAN

ECT

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Ann Arbor, Michigan 48105
Phone: 734-769-3004 Fax: 734-769-3164
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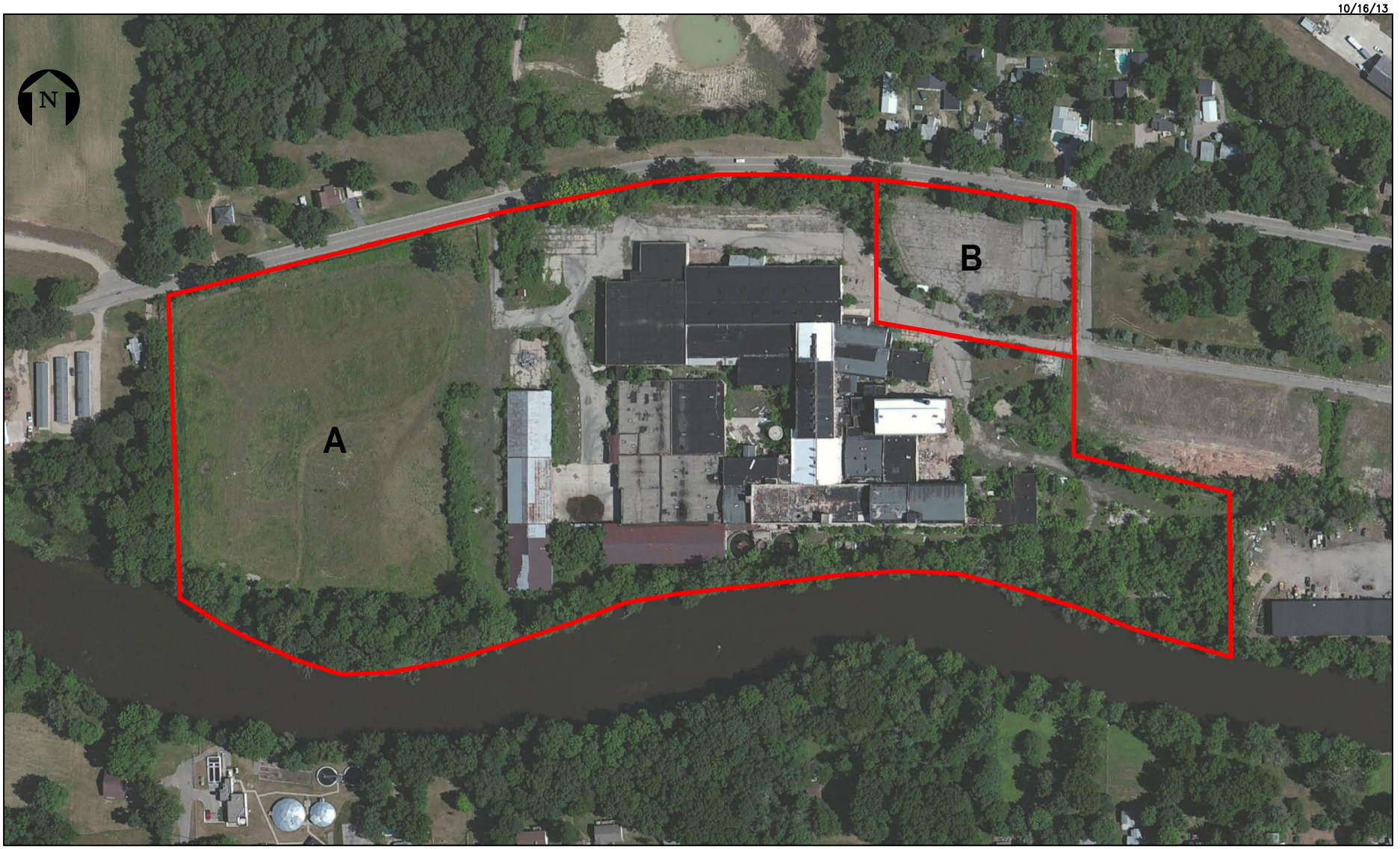



FIGURE 2B
PHASE II STUDY AREA

Source: ALLEGAN COUNTY

ROCK–TENN SITE
431 HELEN STREET
OTSEGO, MICHIGAN

ECT
Environmental Consulting & Technology, Inc.
2200 Commonwealth Blvd., Suite 300
Ann Arbor, Michigan 48105
Phone: 734–769–3004 Fax: 734–769–3164
www.ectinc.com

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FIGURE 3.

SITE LAYOUT MAP WITH SAMPLE LOCATIONS

Source: GOOGLE EARTH, 2012.

ROCK-TENN SITE
431 HELEN STREET
OTSEGO, MICHIGAN

ECT
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Phone: 734-769-3004 Fax: 734-769-3164
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| | RT-GB-18 (3-5') 2/6/13 |
|---|---|
| **SVOCs/PAHs, ug/kg - Method 8270** | |
| Di-n-butyl phthalate | **18,000** |

| | RT-GB-19 (8-10') 2/6/13 |
|---|---|
| **SVOCs/PAHs, ug/kg - Method 8270** | |
| 2-Methylnaphthalene | **5,200** |
| Naphthalene | **2,900** |
| Phenanthrene | **3,000** |
| **Metals, ug/kg - Method 6020, 7471** | |
| Arsenic | **6,300** |
| Barium (B) | **490,000** |
| Mercury (B,Z) | **150** |
| Zinc (B) | **190,000** |

FIGURE 4.

SAMPLE/CONTAMINANT LOCATIONS

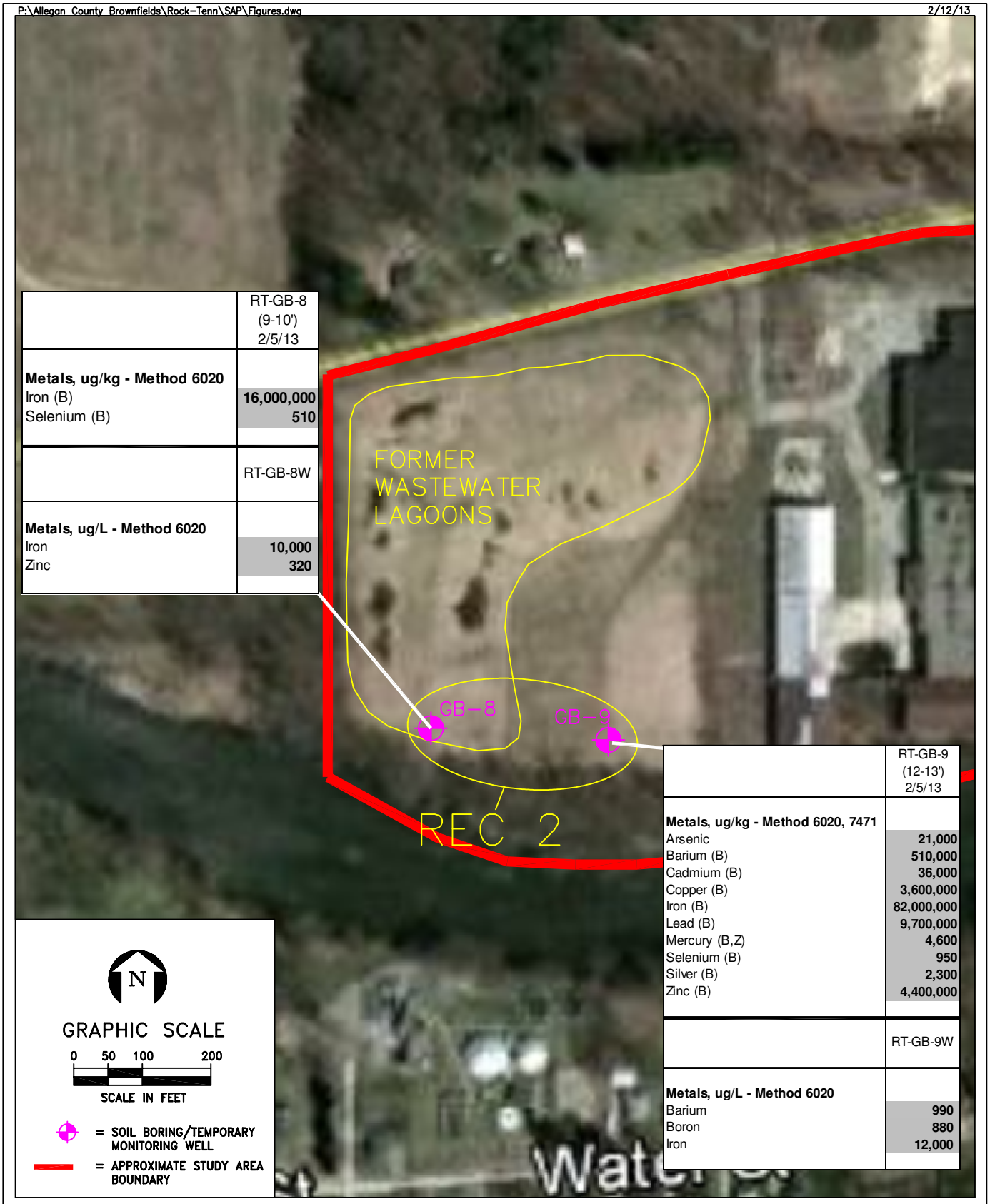
REC 1

Source: GOOGLE EARTH, 2012.

ROCK-TENN SITE
431 HELEN STREET
OTSEGO, MICHIGAN

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www.ectinc.com

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| | RT-GB-8 (9-10') 2/5/13 |
|---|---|
| **Metals, ug/kg - Method 6020** | |
| Iron (B) | **16,000,000** |
| Selenium (B) | **510** |

| | RT-GB-8W |
|---|---|
| **Metals, ug/L - Method 6020** | |
| Iron | **10,000** |
| Zinc | **320** |

| | RT-GB-9 (12-13') 2/5/13 |
|---|---|
| **Metals, ug/kg - Method 6020, 7471** | |
| Arsenic | **21,000** |
| Barium (B) | **510,000** |
| Cadmium (B) | **36,000** |
| Copper (B) | **3,600,000** |
| Iron (B) | **82,000,000** |
| Lead (B) | **9,700,000** |
| Mercury (B,Z) | **4,600** |
| Selenium (B) | **950** |
| Silver (B) | **2,300** |
| Zinc (B) | **4,400,000** |

| | RT-GB-9W |
|---|---|
| **Metals, ug/L - Method 6020** | |
| Barium | **990** |
| Boron | **880** |
| Iron | **12,000** |

# FIGURE 5

SAMPLE/CONTAMINANT LOCATIONS

REC 2

Source: GOOGLE EARTH, 2012.

ROCK-TENN SITE
431 HELEN STREET
OTSEGO, MICHIGAN

ECT
Environmental Consulting & Technology, Inc.
2200 Commonwealth Blvd., Suite 300
Ann Arbor, Michigan 48105
Phone: 734-769-3004 Fax: 734-769-3164
www.ectinc.com

P:\Allegan County Brownfields\Rock-Tenn\SAP\Figures.dwg 2/12/13




FIGURE 6.

SAMPLE/CONTAMINANT LOCATIONS

REC 3

Source: GOOGLE EARTH, 2012.

ROCK-TENN SITE
431 HELEN STREET
OTSEGO, MICHIGAN

ECT
Environmental Consulting & Technology, Inc.
2200 Commonwealth Blvd., Suite 300
Ann Arbor, Michigan 48105
Phone: 734-769-3004 Fax: 734-769-3164
www.ectinc.com

P:\Allegan County Brownfields\Rock-Tenn\SAP\Figures.dwg 2/12/13




FIGURE 7.

SAMPLE/CONTAMINANT LOCATIONS

REC 4

Source: GOOGLE EARTH, 2012.

ROCK-TENN SITE
431 HELEN STREET
OTSEGO, MICHIGAN

ECT
Environmental Consulting & Technology, Inc.
2200 Commonwealth Blvd., Suite 300
Ann Arbor, Michigan 48105
Phone: 734-769-3004 Fax: 734-769-3164
www.ectinc.com

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| | RT-GB-21 (1-3') 2/6/13 |
|---|---|
| **SVOCs/PAHs, ug/kg - Method 8270** | |
| Naphthalene | **1,300** |

FIGURE 8.

SAMPLE/CONTAMINANT LOCATIONS

REC 5

Source: GOOGLE EARTH, 2012.

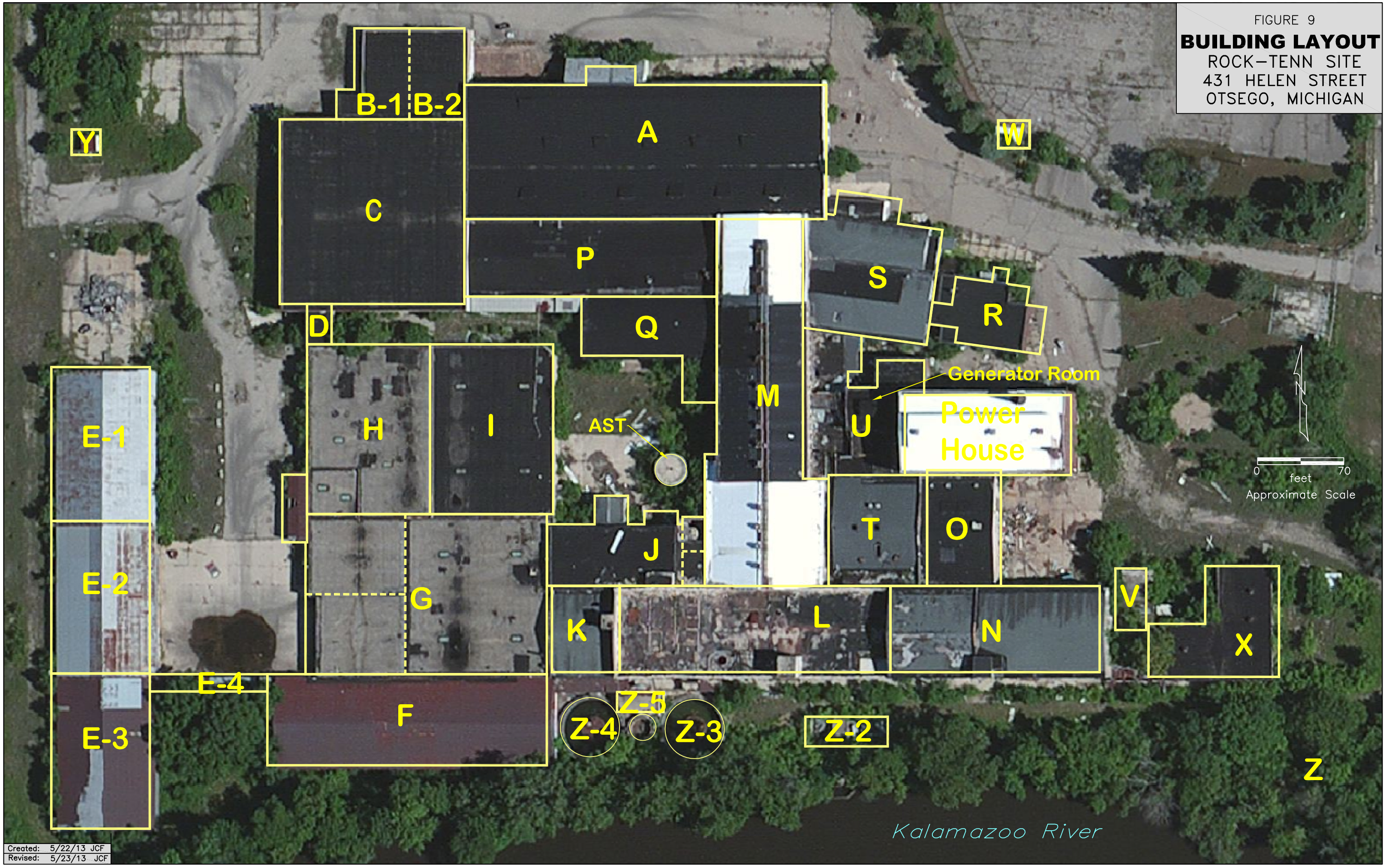
ROCK-TENN SITE
431 HELEN STREET
OTSEGO, MICHIGAN

ECT
Environmental Consulting & Technology, Inc.
2200 Commonwealth Blvd., Suite 300
Ann Arbor, Michigan 48105
Phone: 734-769-3004 Fax: 734-769-3164
www.ectinc.com

FIGURE 9

# BUILDING LAYOUT

ROCK–TENN SITE
431 HELEN STREET
OTSEGO, MICHIGAN




Created: 5/22/13 JCF
Revised: 5/23/13 JCF

# Tables

**Table 1. Soil Analytical Summary Table**
**Rock-Tenn - 431 Helen Street, Otsego, Michigan**
Matrix: Soil
Cleanup Criteria: Residential


| | | Part 201Criteria (September 28, 2012) | | | | Sample Identification | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Residential Criteria | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Chemical Abstract Service # | Statewide Default Background | Drinking Water Protection | Groundwater Surface Water Interface | Direct Contact | RT-GB-8 (9-10') 2/5/13 | RT-GB-9 (12-13') 2/5/13 | RT-GB-10 (7-8') 2/6/13 | RT-GB-11 (4-5') 2/6/13 | RT-GB-12 (3-5') 2/6/13 | RT-GB-13 (3-5') 2/6/13 | RT-GB-14 (1-2') 2/6/13 | RT-GB-15 (0.5-1') 2/6/13 | RT-GB-16 (0.5-1') 2/6/13 | RT-GB-16 (8-9') 2/6/13 | RT-GB-17 (1-2') 2/6/13 | RT-GB-18 (3-5') 2/6/13 | RT-GB-19 (8-10') 2/6/13 | RT-GB-20 (1-3') 2/6/13 | RT-GB-21 (1-3') 2/6/13 | RT-GB-22 (3-5') 2/6/13 | RT-GB-23 (1-3') 2/6/13 | RT-GB-24 (0.5-1') 2/6/13 | RT-GB-25 (0.5-1') 2/6/13 | RT-GB-26 (0.5-1') 2/6/13 | RT-GB-27 (0.5-1') 2/6/13 | RT-GB-28 (0.5-1') 2/6/13 | RT-GB-29 (0.5-1') 2/6/13 | RT-GB-30 (0.5-1') 2/6/13 | RT-GB-31 (0.5-1') 2/6/13 | RT-GB-32 (0.5-1') 2/6/13 |
| **VOCs, ug/kg - Method 8260B** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,2,4-Trimethylbenzene (I) | 95636 | NA | 2,100 | 570 | 1.1E+5 (C) | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | 140 | nd | nd | nd | nd | nd | na | na | na | na | na | na | na | na | na | na | na | na |
| Toluene (I) | 108883 | NA | 16,000 | 5,400 | 2.5E+5 (C) | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | 220 | nd | nd | nd | nd | nd | na | na | na | na | na | na | na | na | na | na | na | na |
| Xylenes (I) | 1330207 | NA | 5,600 | 820 | 1.5E+5 (C) | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | 470 | 170 | nd | nd | 200 | nd | 200 | na | na | na | na | na | na | na | na | na | na | na | na |
| Other VOCs | varies | NC | NC | NC | NC | nd | nd | na | na | nd | nd | nd | nd | nd | nd | nd | nd | nd | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na |
| **SVOCs/PAHs, ug/kg - Method 8270** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2-Methylnaphthalene | 91576 | NA | 57,000 | **4,200** | 8,100,000 | nd | 670 | nd | nd | nd | nd | nd | nd | nd | nd | 600 | 600 | **5,200** | nd | 2,300 | 980 | 540 | na | na | na | na | na | na | na | na | na | na | na | na |
| Benzo(a)anthracene (Q) | 56553 | NA | NLL | NLL | 20,000 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | 430 | 360 | 540 | nd | nd | nd | nd | na | na | na | na | na | na | na | na | na | na | na | na |
| Benzo(a)pyrene (Q) | 50328 | NA | NLL | NLL | 2,000 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | 670 | nd | 420 | nd | nd | nd | nd | na | na | na | na | na | na | na | na | na | na | na | na |
| Benzo(b)fluoranthene (Q) | 205992 | NA | NLL | NLL | 20,000 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | 850 | nd | 380 | nd | nd | nd | nd | na | na | na | na | na | na | na | na | na | na | na | na |
| Benzo(g,h,i)perylene | 191242 | NA | NLL | NLL | 2,500,000 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | 420 | nd | nd | nd | nd | nd | nd | na | na | na | na | na | na | na | na | na | na | na | na |
| Benzo(k)fluoranthene (Q) | 207089 | NA | NLL | NLL | 200,000 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | 430 | nd | 560 | nd | nd | nd | nd | na | na | na | na | na | na | na | na | na | na | na | na |
| 1,1- Biphenyl | 92524 | NC | NC | NC | NC | nd | nd | na | na | nd | nd | nd | nd | nd | nd | nd | nd | 590 | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na |
| Bis(2-ethylhexyl)phthalate | 117817 | NA | NLL | NLL | 2,800,000 | 650 | nd | na | na | nd | nd | nd | nd | nd | nd | nd | nd | nd | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na |
| Caprolactam | 105602 | NA | 120,000 | NA | 5.3E+7 (DD) | nd | 460 | na | na | nd | nd | nd | nd | nd | nd | nd | nd | 1,300 | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na |
| Chrysene (Q) | 218019 | NA | NLL | NLL | 2,000,000 | nd | 820 | nd | nd | nd | nd | nd | nd | 360 | nd | 580 | 780 | 1,000 | 490 | 530 | 420 | nd | na | na | na | na | na | na | na | na | na | na | na | na |
| Dibenzo(a,h)anthracene (Q) | 53703 | NA | NLL | NLL | 2,000 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | na | na | na | na | na | na | na | na | na | na | na | na |
| Di-n-butyl phthalate | 84742 | NA | 7.6E+5 (C) | **11,000** | 7.6E+5 (C) | nd | nd | na | na | nd | nd | nd | nd | nd | nd | nd | **18,000** | 1,300 | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na |
| Fluoranthene | 206440 | NA | 730,000 | 5,500 | 46,000,000 | nd | 960 | nd | nd | nd | nd | nd | nd | 360 | nd | 330 | 620 | 650 | 460 | nd | nd | nd | na | na | na | na | na | na | na | na | na | na | na | na |
| Naphthalene | 91203 | NA | 35,000 | **730** | 16,000,000 | nd | 370 | nd | nd | nd | nd | nd | nd | nd | nd | 340 | nd | **2,900** | nd | **1,300** | 520 | nd | na | na | na | na | na | na | na | na | na | na | na | na |
| Phenanthrene | 85018 | NA | 56,000 | **2,100** | 1,600,000 | nd | 1,200 | nd | nd | nd | nd | nd | nd | nd | nd | 500 | 570 | **3,000** | 390 | 2,100 | 1,000 | 620 | na | na | na | na | na | na | na | na | na | na | na | na |
| Pyrene | 129000 | NA | 480,000 | ID | 29,000,000 | nd | 970 | nd | nd | nd | nd | nd | 390 | 600 | nd | 600 | 1,700 | 1,100 | 1,000 | 600 | 490 | nd | na | na | na | na | na | na | na | na | na | na | na | na |
| Other SVOCs | varies | NC | NC | NC | NC | nd | nd | na | na | nd | nd | nd | nd | nd | nd | nd | nd | nd | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na |
| **Metals, ug/kg - Method 6020, 7471** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Arsenic | 7440382 | **5,800** | **4,600** | **4,600** | **7,600** | 4,600 | **21,000** | na | na | na | na | na | **27,000** | na | na | na | na | **6,300** | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na |
| *Barium (B) | 7440393 | **75,000** | 1,300,000 | **440,000** | 37,000,000 | 50,000 | **510,000** | na | na | na | na | na | 400,000 | na | na | na | na | **490,000** | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na |
| Boron (B) | 7440428 | NA | 10,000 | 1.4E+5 (X) | 4.8E+7 (DD) | nd | nd | na | na | na | na | na | na | na | na | na | na | nd | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na |
| *Cadmium (B) | 7440439 | **1,200** | **6,000** | **3,600** | 550,000 | 290 | **36,000** | na | na | na | na | na | **14,000** | na | na | na | na | 460 | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na |
| *Chromium | 16065831 | 18,000 (total) | 1.0E+9 (D) | 2.9E+09 | 7.9E+08 | 8,500 | 17,000 | na | na | na | na | na | 22,000 | na | na | na | na | 4,900 | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na |
| *Copper (B) | 7440508 | **32,000** | 5,800,000 | **75,000** | 20,000,000 | 17,000 | **3,600,000** | na | na | na | na | na | **910,000** | na | na | na | na | 29,000 | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na |
| Iron (B) | 7439896 | **12,000,000** | **6,000** | NA | 160,000,000 | **16,000,000** | **82,000,000** | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na |
| *Lead (B) | 7439921 | **21,000** | **700,000** | **5,100,000** | **400,000** | 13,000 | **9,700,000** | na | na | na | na | na | **1,500,000** | na | na | na | na | 13,000 | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na |
| Magnesium (B) | 7439954 | NA | 8,000,000 | NA | 1.0E+9 (D) | 1,800,000 | 720,000 | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na |
| Mercury (B,Z) | Varies | **130** | **1,700** | **50 (M); 1.2** | 160,000 | 120 | **4,600** | na | na | na | na | na | **4,600** | na | na | na | na | **150** | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na |
| Selenium (B) | 7782492 | **410** | **4,000** | **400** | 2,600,000 | **510** | **950** | na | na | na | na | na | **5,600** | na | na | na | na | 320 | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na |
| Silver (B) | 7440224 | **1,000** | 4,500 | **100 (M); 27** | 2,500,000 | 170 | **2,300** | na | na | na | na | na | **2,200** | na | na | na | na | nd | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na |
| Thallium (B) | 7440280 | NA | 2,300 | 4,200 (X) | 35,000 | nd | nd | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na |
| Zinc (B) | 7440666 | **47,000** | **2,400,000** | **175,000** | 170,000,000 | 110,000 | **4,400,000** | na | na | na | na | na | **1,300,000** | na | na | na | na | **190,000** | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na |
| **PCBs, ug/kg - Method 8082** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polychlorinated biphenyls (PCBs) (J,T) | 1336363 | NA | NLL | NLL | (T) | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |

Note:
(B) Background, as defined in R 299.5701(b), may be substituted if higher than the calculated cleanup criterion. Background levels may be less than criteria for some inorganic compounds.
(C) Value presented is a screening level based on the chemical-specific generic soil saturation concentration (Csat) since the calculated risk-based criterion is greater than Csat. Concentrations greater than Csat are acceptable cleanup criteria for this pathway where a site-specific demonstration indicates that free-phase material containing a hazardous substance is not present.
(D) Calculated criterion exceeds 100 percent, hence it is reduced to 100 percent or 1.0E+9 parts per billion (ppb).
(DD) Hazardous substance causes developmental effects. Residential direct contact criteria are protective of both prenatal and postnatal exposure. Nonresidential direct contact criteria are protective for a pregnant adult receptor.
(I) Hazardous substance may exhibit the characteristic of ignitability as defined in 40 C.F.R. §261.21 (revised as of July 1, 2001).
(J) Hazardous substance may be present in several isomer forms. Isomer-specific concentrations shall be added together for comparison to criteria.
(Q) Criteria for carcinogenic polycyclic aromatic hydrocarbons were developed using relative potential potencies to benzo(a)pyrene.
(T) Refer to the federal Toxic Substances Control Act (TSCA), 40 C.F.R. §761, Subpart D and 40 C.F.R. §761, Subpart G, to determine the applicability of TSCA cleanup standards.
(X) The GSIP criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source.
(Z) Mercury is typically measured as total mercury. The generic cleanup criteria, however, are based on data for different species of mercury.
(*) Groundwater to Surface Water Interface Protection (GSIP) criterion was calculated using MDEQ's Part 201 Generic Facility-Specific GSI PC spreadsheet.
na = Criterion or value is *not available* or *not applicable*
NC = *No criterion* is *available* at this time.
nd = *Non detect* value.
NLL = Chemical is *not likely to leach* under most soil conditions
**BOLD HIGHLIGHTS** = Concentration exceeds bold, shaded criteria

## Table 2. Groundwater Analytical Summary Table

**Rock-Tenn - 431 Helen Street, Otsego, Michigan**

Matrix: Groundwater

Cleanup Criteria: Residential



| | Chemical Abstract Service # | Part 201 Criteria (September 28, 2012) Residential Drinking Water | GSI Criteria | RT-GB-1W | RT-GB-2W | RT-GB-3W | RT-GB-4W | RT-GB-5W | RT-GB-6W | RT-GB-7W | RT-GB-8W | RT-GB-9W | EB-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **VOCs, ug/l - Method 8260B** | | | | | | | | | | | | | |
| VOCs | varies | NC | NC | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| **SVOCs/PAHs, ug/l - Method 8270** | | | | | | | | | | | | | |
| SVOCs | varies | NC | NC | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| **Metals, ug/kg - Method 6020** | | | | | | | | | | | | | |
| Arsenic | 7440382 | 10 (A) | 10 | na | na | na | na | na | na | na | nd | 9.1 | nd |
| *Barium | 7440393 | 2,000 (A) | **670** | na | na | na | na | na | na | na | nd | **990** | nd |
| Boron | 7440428 | **500 (F)** | 7,200 (X) | na | na | na | na | na | na | na | nd | **880** | nd |
| *Cadmium | 7440439 | 5.0 (A) | 3 (X) | na | na | na | na | na | na | na | nd | nd | nd |
| *Chromium | 16065831 | 100 (A) | 100 (X) | na | na | na | na | na | na | na | nd | nd | nd |
| *Copper | 7440508 | 1,000 (E) | 13 | na | na | na | na | na | na | na | nd | nd | nd |
| Iron | 7439896 | **300 (E)** | NA | na | na | na | na | na | na | na | **10,000** | **12,000** | nd |
| *Lead | 7439921 | 4.0 (L) | 29 (X) | na | na | na | na | na | na | na | nd | nd | nd |
| Magnesium | 7439954 | 400,000 | NA | na | na | na | na | na | na | na | 32,000 | 29,000 | nd |
| Mercury (Z) | Varies | 2.0 (A) | 0 | na | na | na | na | na | na | na | nd | nd | nd |
| Selenium | 7782492 | 50 (A) | 5 | na | na | na | na | na | na | na | nd | nd | nd |
| Silver | 7440224 | 34 | 0.2 (M); 0.06 | na | na | na | na | na | na | na | nd | nd | nd |
| Thallium | 7440280 | 2.0 (A) | 3.7 (X) | na | na | na | na | na | na | na | nd | nd | nd |
| Zinc | 7440666 | 2,400 | **170** | na | na | na | na | na | na | na | **320** | nd | nd |

Note:

(A) Criterion is the state of Michigan drinking water standard established pursuant to Section 5 of 1976 PA 399, MCL 325.1005

(E) Criterion is the aesthetic drinking water value, as required by Section 20120a(5) of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA).

(L) Criteria for lead are derived using a biologically based model, as allowed for under Section 20120a(10) of the NREPA, and are not calculated using the algorithms and assumptions specified in pathway-specific rules.

(M) Calculated criterion is below the analytical target detection limit, therefore, the criterion defaults to the target detection limit.

(X) The GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source.

(Z) Mercury is typically measured as total mercury. The generic cleanup criteria, however, are based on data for different species of mercury.

(*) Groundwater to Surface Water Interface (GSI) criterion was calculated using MDEQ's Part 201 Generic Facility-Specific GSI spreadsheet.

na = Criterion or value is *not available* or *not applicable*

NC = *No criterion* is *available* at this time.

nd = *Non detect* value.

# Table 3. Soil QA/QC Summary Table

**Rock-Tenn - 431 Helen Street, Otsego, Michigan**

Matrix: Soil

Cleanup Criteria: Residential



| | Chemical Abstract Service # | Duplicates | | | | Matrix Spike/Matrix Spike Duplicate | | | Trip Blank |
|---|---|---|---|---|---|---|---|---|---|
| | | RT-GB-15 (0.5-1') | | RT-GB-22 (3-5') | | RT-GB-19 (8-10') | Matrix Spike | Matrix Spike Duplicate | |
| | | 2/6/13 | DUP 2/6/13 | 2/6/13 | DUP 2/6/13 | 2/6/13 | 2/6/13 | 2/6/13 | |
| **VOC, ug/kg - Method 8260B** | | | | | | | | | |
| Xylenes | 1330207 | nd | nd | nd | 64 | nd | 3,799 | 3,786 | nd |
| Other VOCs | - | nd | nd | nd | nd | nd | nd | nd | nd |
| **SVOCs, ug/kg - Method 8270** | | | | | | | | | |
| 2-Methylnaphthalene | 91576 | nd | nd | 980 | 1,500 | 5,200 | 4,264 | 4,106 | na |
| Benzo(a)anthracene | 56553 | nd | nd | nd | nd | 540 | 1,754 | 1,623 | na |
| Benzo(a)pyrene | 50328 | nd | nd | nd | nd | 420 | 1,674 | 1,506 | na |
| Benzo(b)fluoranthene | 205992 | nd | nd | nd | nd | 380 | 1,954 | 1,743 | na |
| Benzo(k)fluoranthene | 207089 | nd | nd | nd | nd | 560 | 1,761 | 1,675 | na |
| 1,1-Biphenyl | 92524 | nd | nd | nd | na | 590 | 1582 | 1476 | na |
| Caprolactam | 105602 | nd | nd | na | na | 1,300 | 2290 | 2014 | na |
| Chrysene | 218019 | nd | nd | 420 | 600 | 1,000 | 1,994 | 1,783 | na |
| Dibenzo(a,h)anthracene | 53703 | nd | nd | nd | nd | 1,500 | 839.8 | 730.9 | na |
| Di-n-butyl phthalate | 84742 | nd | nd | nd | nd | 1,300 | 1,597 | 1,366 | na |
| Fluoranthene | 206440 | nd | 480 | nd | nd | 650 | 1,958 | 1,985 | na |
| Naphthalene | 91203 | nd | nd | 520 | 730 | 2,900 | 2,775 | 2,768 | na |
| Phenanthrene | 85018 | nd | 340 | 1,000 | 1,700 | 3,000 | 3,339 | 3,291 | na |
| Pyrene | 129000 | 390 | 590 | 490 | 650 | 1,100 | 1,955 | 1,931 | na |
| Other SVOCs | - | nd | nd | nd | nd | nd | nd | nd | nd |
| **Metals, ug/kg - Method 6020** | | | | | | | | | |
| Arsenic | 7440382 | 27,000 | 37,000 | na | na | 6,300 | 11,520 | 12,300 | na |
| Barium | 7440393 | 400,000 | 260,000 | na | na | 490,000 | 223,900 | 204,300 | na |
| Cadmium | 7440439 | 14,000 | 9,000 | na | na | 460 | 9,306 | 9,488 | na |
| Chromium | multiple | 22,000 | 28,000 | na | na | 4,900 | 13,410 | 12,670 | na |
| Copper | 7440508 | 910,000 | 660,000 | na | na | 29,000 | 31,720 | 26,100 | na |
| Lead (total) | 7439921 | 1,500,000 | 1,100,000 | na | na | 13,000 | 20,340 | 19,050 | na |
| Mercury (Total) | Varies | 4,600 | 6,700 | na | na | 150 | 274 | 262 | na |
| Selenium | 7782492 | 5,600 | 2,300 | na | na | 320 | 8,580 | 8,969 | na |
| Silver | 7440224 | 2,200 | 1,300 | na | na | nd | 8,659 | 9,030 | na |
| Zinc | 7440666 | 1,300,000 | 730,000 | na | na | 190,000 | 164,200 | 139,000 | na |

## Table 4. Groundwater QA/QC Summary Table

**Rock-Tenn - 431 Helen Street, Otsego, Michigan**

Matrix: Groundwater

Cleanup Criteria: Residential



| | Chemical Abstract Service # | Duplicates RT-GB-9W 2/7/13 | Duplicates RT-GB-9W Duplicate 2/7/13 | Matrix Spike/Matrix Spike Duplicate RT-GB-8W 2/7/13 | Matrix Spike 2/7/13 | Matrix Spike Duplicate 2/7/13 | Trip Blank |
|---|---|---|---|---|---|---|---|
| **VOCs, ug/l - Method 8260B** | | | | | | | |
| 1,3,5-Trimethylbenzene | 108678 | nd | nd | nd | 16.4 | 16.50 | nd |
| 2-Methylnaphthalene | 91576 | nd | nd | nd | na | na | nd |
| Benzene | 71432 | nd | nd | nd | 18.47 | 18.61 | nd |
| Ethylbenzene | 100414 | nd | nd | nd | 16.97 | 16.87 | nd |
| Isopropylbenzene | 98828 | na | na | nd | 16.37 | 16.47 | |
| Methyl-tert-butyl ether (MTBE) | 1634044 | na | na | nd | 21.30 | 21.28 | |
| Naphthalene | 91203 | nd | nd | nd | 16.34 | 16.52 | nd |
| n-Propylbenzene | 103651 | na | na | nd | 15.85 | 15.89 | |
| Toluene | 108883 | nd | nd | nd | 16.95 | 16.93 | nd |
| Xylenes | 1330207 | nd | nd | nd | 50.39 | 50.41 | nd |
| **SVOCs/PAHs, ug/l - Method 8270** | | | | | | | |
| 2-Methylnaphthalene | 91576 | nd | nd | nd | 143.1 | 139.9 | na |
| Acenaphthene | 83329 | nd | nd | nd | 152.4 | 148.9 | na |
| Acenaphthylene | 208968 | nd | nd | nd | 150.6 | 145 | na |
| Anthracene | 120127 | nd | nd | nd | 180.9 | 179.2 | na |
| Benzo(a)anthracene | 56553 | nd | nd | nd | 178.6 | 176.8 | na |
| Benzo(a)pyrene | 50328 | nd | nd | nd | 188.2 | 187.9 | na |
| Benzo(b)fluoranthene | 205992 | nd | nd | nd | 190.0 | 193.6 | na |
| Benzo(g,h,i)perylene | 191242 | nd | nd | nd | 203.2 | 202.4 | na |
| Benzo(k)fluoranthene | 207089 | nd | nd | nd | 198.8 | 198.0 | na |
| Chrysene | 218019 | nd | nd | nd | 186.1 | 186.5 | na |
| Dibenzo(a,h)anthracene | 53703 | nd | nd | nd | 196.7 | 198.9 | na |
| Fluoranthene | 206440 | nd | nd | nd | 194.4 | 193.3 | na |
| Fluorene | 86737 | nd | nd | nd | 154.4 | 150.4 | na |
| Indeno(1,2,3-cd)pyrene | 193395 | nd | nd | nd | 199.5 | 200.2 | na |
| Naphthalene | 91203 | nd | nd | nd | 142 | 137.5 | na |
| Phenanthrene | 85018 | nd | nd | nd | 177.2 | 173 | na |
| Pyrene | 129000 | nd | nd | nd | 186.8 | 187.3 | na |
| SVOCs | - | nd | na | nd | | | |
| **Metals, ug/kg - Method 6020** | | | | | | | |
| Arsenic | 7440382 | 9.1 | 9.4 | nd | 98.8 | 97.2 | na |
| Barium | 7440393 | 990 | 980 | nd | 1,781 | 1,752 | na |
| Boron | 7440393 | 990 | 980 | nd | 1,781 | 1,752 | na |
| Cadmium | 7440439 | nd | nd | nd | 95.2 | 91.1 | na |
| Chromium | multiple | nd | nd | nd | 94.9 | 89.6 | na |
| Copper | 7440508 | nd | nd | nd | 93.6 | 88.1 | na |
| Iron | 7440393 | 990 | 980 | nd | 1,781 | 1,752 | na |
| Lead (total) | 7439921 | nd | nd | nd | 98 | 94.2 | na |
| Magnesium | 7440393 | 990 | 980 | nd | 1,781 | 1,752 | na |
| Mercury (Total) | Varies | nd | nd | nd | 1.9 | 1.9 | na |
| Selenium | 7782492 | nd | nd | nd | 94.4 | 90.1 | na |
| Silver | 7440224 | nd | nd | nd | 93.1 | 87.5 | na |
| Zinc | 7440666 | nd | nd | 320 | 411 | 392.0 | na |

# Otsego Paper Mill & Power House
## Table 5 - Summary of Special Wastes (Ex. ACM)

| Building ID | Floors | Building Inside Sq. Ft | Description | | | | | | | | | | Details |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | PCB Units | | Hg Units | | Tanks | | Lights | | | Petroleum Staining | |
| | | | | | | | | | | Units | Tubes | | |
| Power House | 2 | 8,220 | B | 22 | Hg L | 21 | AST | 5 | FL | 1 | 4 | | Chemical/Water Tanks |
| A | 1 | 32,600 | B | 36 | Hg L | 27 | | | FL | 9 | 36 | | |
| B-1 | 1 | 6,400 | B | 7 | Hg L | 7 | | | FL | | | | |
| B-2 | | | | | Hg L | | | | FL | | | | |
| C & D | 2 | 24,400 | B | 53 | Hg L | 4 | | | FL | 20 | 40 | | |
| E-1 thru E-4 | 1 | 23,500 | B | 26 | Hg L | 26 | | | FL | | | | |
| F | 1 | 16,800 | B | 4 | Hg L | | | | FL | 4 | 6 | | |
| G | 1 | 25,500 | B | 6 | Hg L | 6 | | | FL | | | | |
| H | 1 | 8,200 | B | | Hg L | | | | FL | 1 | 4 | | |
| I | 1 | 9,800 | B | 4 | Hg L | 2 | | | FL | 2 | 7 | | |
| J | 3 | 4,200 | B | 6 | Hg L | | | | FL | 6 | 9 | | |
| K | 3 | 4,000 | B | 12 | Hg L | | | | FL | 12 | 36 | | |
| L | 3 | 15,500 | B | 27 | Hg L | 27 | AST | 5 | FL | | | | Large Process Tanks (Floor 1)/Concrete/Tile |
| M | 2 | 24,000 | B | 21 | Hg L | 21 | PIT | 2 | FL | | | 33%-M2, 100% M1 | Large Process Tanks |
| N | 6 | 10,500 | B | 3 | Hg L | 3 | | | FL | | | | |
| O | 2 | 5,400 | B | 15 | Hg L | 15 | | | FL | 8 | 16 | | |
| P & Q | 3 | 24,000 | B | 34 | Hg L | 14 | | | FL | 20 | 80 | | |
| R | 2 | 6,000 | B | 17 | Hg L | | | | FL | 17 | 34 | | |
| S | 3 | 8,500 | B | 36 | Hg L | 6 | | | FL | 30 | 120 | | |
| T | 1 | 7,200 | B | 20 | Hg L | 20 | | | FL | | | | |
| U | 2 | 6,050 | B | 32 | Hg L | 12 | | | FL | 30 | 60 | | |
| V & X | 1 | 8,628 | B | 9 | Hg L | 8 | | | FL | 1 | 2 | | |
| W | 1 | 256 | B | | Hg L | | | | FL | | | | |
| Y | 1 | 150 | B | | Hg L | | | | FL | | | | |
| Z-1 & Z-5 | 2 | 2,605 | B | | Hg L | | Proc. | 3 | FL | | | | Process Tanks |
| Between M-I | | | | | | | Proc. | 1 | FL | | | | Process Tank |
| Totals: | 474,654 | | 390 | | 219 | | 16 | | 161 | | 454 | 3,830 Tons | |

FL - Fluorescent Lights
B - Ballasts
T - Transformers
Hg L - Mercury Lights
BA - Batteries (automotive)

Proc. - Process Tanks
AST - Above Ground Storage Tanks
PIT - Pit Holding Tanks

**Otsego Paper Mill & Power House**
**Table 6 - Summary of Reported ACM or PACM**

| Room ID | Floor | Sample ID | Sheet | Description | Units | Volume (units) | ACM Type | Percent | Rec. Actions |
|---|---|---|---|---|---|---|---|---|---|
| A | 1 | A-1a | A | Brown Tabular Material, Floor Tile | ft² | 225 | Chrysotile | 3 | Pre-Demolition Abatement |
| A | roof | 1-2 | A | Black tabular material, Building A, roof-2 | ft² | 32,600 | Chrysotile | <1 | Pre-Demolition Abatement |
| C&D | roof | 2-1 | | Black tabular material, Building C&D, roof-1 | ft² | 24,400 | Chrysotile | 35 | Pre-Demolition Abatement |
| P&Q | roof | 6-1 | P&Q-3 | Black tabular material, Building P&Q, roof-1 | ft² | 28,900 | Chrysotile | 7 | Wet Demolition (Abate P & Q Roof) - Not a Safe Working Area |
| V&X | roof | 12-1 | V & X | Black tabular material, Building V&X, roof-1 | ft² | 8,628 | Chrysotile | 7 | Pre-Demolition Abatement |
| O&A | 1 | 16-2 | A & O-1 | Tan tabular material, Building O&A | ft² | 1,340 | Chrysotile | 3 | Pre-Demolition Abatement |
| L-2 | 2 | 18-1 | L-2 | White fibrous material, Building L-2, debris-1 | tons | 300 | Chrysotile | 35 | Wet Demolition (Abate L-1 and L-2) - Not a Safe Working Area - Floor Clasped) |
| P&Q | 3 | 21-1 | P&Q | Tan tabular material, Building P, Office floor tile-1 | sq. ft | 820 | Chrysotile | 3 | Pre-Demolition Abatement |
| R | 1 | 27-1 | R-1 | Brown fibrous material, Building R, pipe cover | lin. ft | 96 | Chrysotile | 30 | Pre-Demolition Abatement |
| Power House | 2 | 31-2 | PH2A | White granular material, Power House-2, debris-3 | tons | 132 | Amosite | 15 | Pre-Demolition Abatement - Areas in Safe Areas/Remaining Wet Demolition |
| Power House | | 32-2 | PH2A | pink fiberous material, Power House exerior insulation,furnace | Counted Under 38-1 | | Chrysotle | 10 | Pre-Demolition Abatement - Areas in Safe Areas/Remaining Wet Demolition |
| Power House | 1 | 33-2 | PH F-1 | White fibrous material, Power House-1, debris-2 | tons | 320 | Chrysotile | 4 | Pre-Demolition Abatement - Areas in Safe Areas/Remaining Wet Demolition |
| Power House/Gen. Room | 1 | PACM | U-1 | Brown fibrous material, Power House, gen 8" pipe insulation (Labeled Asbestos) | lin. ft | 30 | PACM | | Pre-Demolition Abatement |
| Power House | | 35-2 | U-1 | Brown fibrous material, Power House, gen 24" pipe insulation-2 | lin. ft | 18 | Amosite | 10 | Pre-Demolition Abatement |
| Power House | 2 | 38-1 | PH2A/PH2C | Brown fibrous material, Power House, insulation behind steel covers | sq. ft | 6,768 | Chrysotile | 45 | Pre-Demolition Abatement |
| Power House | 2 | 40-1 | PH2A/PH2C | Gray granular material, Power House, second heat coil, exterior-1 | sq. ft | 1,668 | Chrysotile | 15 | Pre-Demolition Abatement |
| Power House | 2 | 42-2 | PH2B | Gray granular material, Power House, furnace brick/mortar-2 | ton | 245 | Chrysotile | 5 | Wet Demolition |
| Power House/Gen. Room | 1 & 2 | 43-1 | U-1 | White fibrous material, Power House, gen+48, debris-1 | ton | 80 | Amosite | 12 | Pre-Demolition Abatement - Areas in Safe Areas/Remaining Wet Demolition |
| Power House | 2 | 46-1 | PH2B/PH-2D | Brown fibrous material, Power House, gasket steam coils-1 | Gaskets | 864 | Amosite | 10 | Pre-Demolition Abatement - Areas in Safe Areas/Remaining Wet Demolition |
| Power House | 2 | PACM | PH2A | Inside Boiler 1 & 2, Misc. ACM Debris | sq. ft | 1,000 | PACM | | Wet Demolition |
| | 2 | PACM | PH2A | Inside Boiler 1 & 2, Misc. ACM Gaskets | lin. ft | 300 | PACM | | Wet Demolition |

Notes: Power House and Gen. (Generator Rooms - areas)/Buildings J, K, L, M and N are as visual observed by field crews are structurally jeopardized. Elevated floors are noted as being jeopardized and entrance with heavy equipment is not recommended. Furthermore all portions of the building including roofs should not be entered without appropriate PPE.

# Appendix A

## Soil Boring Logs

ECT
Environmental Consulting & Technology, Inc.

# Soil Boring Log of RT-GB-1



Rock-Tenn Site
431 Helen Street
Otsego, MI

ECT Project # 100925.1200

| | | | |
|---|---|---|---|
| Date Completed: | 2/5/13 | Boring Location: | North of Kalamazoo River bank (REC 7). |
| Hole Diameter: | 2.5 inches | | |
| Drilling Company: | Fibertec, Inc. | | |
| Drilling Method: | Geoprobe | Surface Elevation: | na |
| ECT Rep: | J. Bartholomew | | |

| Depth in Feet | USCS | Graphic | PID (ppm) | Sample ID | Recovery (inches) | DESCRIPTION | REMARKS | Water Level |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | 5" Topsoil | | |
| 1 | SW | | 0.0 | | | 5 - 16" Light brown, fine-medium SAND, trace fine gravel | | |
| 2 | | | | | | 16 - 22" Concrete Debris | | |
| 3 | FILL | | 0.0 | | 27 | 22 - 27" fine to medium, FILL SAND, woody debris, slag, and brick. | | |
| 4 | | | | | | | | |
| 5 | | | | | | 6" Sluff | | |
| 6 | SW | | 0.0 | | | 6 - 16" Tan and light brown, SAND, wet to saturated | | |
| 7 | | | | | 29 | 16" - 29" Light brown, medium to coarse SAND and mixed well-graded GRAVEL (fine to 1/4" diam.) | Temporary monitoring well screen set from 5 to 10 feet bsg. | ∇ |
| 8 | SW-GW | | 0.0 | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | End of boring 10' below surface grade | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |

Legend

- Topsoil
- Sand
- Fill
- Sand & Gravel
- ∇ - Approximate Water Level

ECT
Environmental Consulting & Technology, Inc.

# Soil Boring Log of RT-GB-2



Rock-Tenn Site
431 Helen Street
Otsego, MI

ECT Project # 100925.1200

| | | | |
|---|---|---|---|
| Date Completed: | 2/5/13 | Boring Location: | North of Kalamazoo River bank & 150 feet west of RT-GB-1 (REC 7). |
| Hole Diameter: | 2.5 inches | | |
| Drilling Company: | Fibertec, Inc. | | |
| Drilling Method: | Geoprobe | Surface Elevation: | na |
| ECT Rep: | J. Bartholomew | | |

| Depth in Feet | USCS | Graphic | PID (ppm) | Sample ID | Recovery (inches) | DESCRIPTION | REMARKS | Water Level |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | | | |
| 1 | FILL | | 0.0 | | 26 | 2" Topsoil<br>2-12" Dark Brown, medium FILL SAND, some gravel, coal, trace brick, damp. | | |
| 2 | | | | | | 12-26" Black FILL, coal, slag, trace brick. | | |
| 3 | FILL | | 0.0 | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | 36 | 4" Sluff | | |
| 6 | SP | | 0.0 | | | 4-19" Dark brown fine SAND, silty, moist. | | |
| 7 | | | | | | 19 -36" Tan, fine to course SAND and GRAVEL, moist to saturated | | ▽ |
| 8 | SW-GW | | 0.0 | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | 48 | 6" Sluff | Temporary monitoring well screen is set from 8 to 13 feet bsg. | |
| 11 | | | | | | 6 -30" Tan, fine to course SAND and GRAVEL, saturated | | |
| 12 | SW-GW | | 0.0 | | | | | |
| 13 | | | | | | 30-48" Gray, fine SAND, silty, wet (3" clay lens from 36-39") | | |
| 14 | SM | | 0.0 | | | | | |
| 15 | | | | | | End of boring 15' below surface grade | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |

Legend

- Topsoil
- Sand
- Fill
- Sand & Gravel
- ▽ - Approximate Water Level

ECT
Environmental Consulting & Technology, Inc.

# Soil Boring Log of RT-GB-3



Rock-Tenn Site
431 Helen Street
Otsego, MI

ECT Project # 100925.1200

| | | | |
|---|---|---|---|
| Date Completed: | 2/5/13 | Boring Location: | North of Kalamazoo River bank & 150 feet west of RT-GB-2 (REC 7). |
| Hole Diameter: | 2.5 inches | | |
| Drilling Company: | Fibertec, Inc. | | |
| Drilling Method: | Geoprobe | Surface Elevation: | na |
| ECT Rep: | J. Bartholomew | | |

| Depth in Feet | USCS | Graphic | PID (ppm) | Sample ID | Recovery (inches) | DESCRIPTION | REMARKS | Water Level |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | 2" Topsoil | | |
| 1 | | | | | | 2-12" Dark Brown, medium FILL SAND, some gravel, trace coal | | |
| 2 | | | | | | 12-29" Black FILL, coal with trace brick and slag | | |
| 3 | FILL | | | | 29 | | | |
| 4 | | | | | | | | |
| 5 | | | | | | 4" Sluff | | |
| 6 | | | | | | 4-24" Dark brown fine SAND, root debris, damp | | |
| 7 | SP | | | | | 24-34" White and light tan, ASH, wet | | |
| 8 | | | | | 46 | 34-36" Brick | | |
| 9 | FILL | | | | | 36-46" White and light tan ASH, wet | | |
| 10 | | | | | | 10" Sluff | Temporary monitoring well screen is set from 9 to 14 feet bsg. | ▽ |
| 11 | | | | | | 10-22" Dark brown, fine SAND, with black staining, saturated | | |
| 12 | SP | | | | 37 | 22-37" Course SAND, trace fine gravel, saturated | | |
| 13 | | | | | | | | |
| 14 | SP | | | | | | | |
| 15 | | | | | | End of boring 15' below surface grade | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |

Legend

- Topsoil
- Sand
- Fill
- Sand & Gravel
- ▽ - Approximate Water Level

ECT
Environmental Consulting & Technology, Inc.

# Soil Boring Log of RT-GB-4



Rock-Tenn Site
431 Helen Street
Otsego, MI

ECT Project # 100925.1200

| | | | |
|---|---|---|---|
| Date Completed: | 2/5/13 | Boring Location: | North of Kalamazoo River bank & 150 feet west of RT-GB-3 (REC 7). |
| Hole Diameter: | 2.5 inches | | |
| Drilling Company: | Fibertec, Inc. | | |
| Drilling Method: | Geoprobe | Surface Elevation: | na |
| ECT Rep: | J. Bartholomew | | |

| Depth in Feet | USCS | Graphic | PID (ppm) | Sample ID | Recovery (inches) | DESCRIPTION | REMARKS | Water Level |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | 1" Topsoil | | |
| 1 | | | | | | 1-20" Light to dark brown, fine to medium FILL SAND, trace fine gravel, mixed coal debris, damp | | |
| 2 | FILL | | | | 20 | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | 3" Sluff | | |
| 6 | FILL | | | | | 3-20" Black FILL, coal and slag, wet at 8', sheen on soil at 8' (16-19") | | |
| 7 | | | | | 28 | 20-28" Dark gray, fine SAND, trace roots, moist/wet | | |
| 8 | SP | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | 7" Sluff | Temporary monitoring well screen is set from 7.5 to 12.5 feet bsg. | ▽ |
| 11 | | | | | | 7-56" Gray, fine to coarse SAND, some gravel, saturated | | |
| 12 | | | | | 56 | | | |
| 13 | SW | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | End of boring 15' below surface grade | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |

Legend

- Topsoil
- Sand
- Fill
- Sand & Gravel
- ▽ - Approximate Water Level

ECT
Environmental Consulting & Technology, Inc.

# Soil Boring Log of RT-GB-5



Rock-Tenn Site
431 Helen Street
Otsego, MI

ECT Project # 100925.1200

| | | | |
|---|---|---|---|
| Date Completed: | 2/5/13 | Boring Location: | North of Kalamazoo River bank & 150 feet west of RT-GB-4 (REC 7). |
| Hole Diameter: | 2.5 inches | | |
| Drilling Company: | Fibertec, Inc. | | |
| Drilling Method: | Geoprobe | Surface Elevation: | na |
| ECT Rep: | J. Bartholomew | | |

| Depth in Feet | USCS | Graphic | PID (ppm) | Sample ID | Recovery (inches) | DESCRIPTION | REMARKS | Water Level |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | 2" Topsoil | | |
| 1 | | | | | | 2-22" FILL MATERIAL, coal, brick, concrete, mixed debris | | |
| 2 | FILL | | | | 40 | 22-40" Dark brown, fine to medium, SAND, coal and brick debris trace fine gravel, damp | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | 4" Sluff | | |
| 6 | | | | | | 4-30" Dark brown to dark gray, fine to medium FILL SAND | | |
| 7 | | | | | 30 | | | |
| 8 | FILL | | | | | | | ▽ |
| 9 | | | | | | | Temporary monitoring well screen is set from 7 to 12 feet bsg. | |
| 10 | | | | | | 10" Sluff | | |
| 11 | | | | | | 10-45" Gray, soft SILT, saturated | | |
| 12 | MH | | | | 55 | | | |
| 13 | | | | | | | | |
| 14 | SM | | | | | 45-55" Gray SAND and very fine SILT, saturated. | | |
| 15 | | | | | | End of boring 15' below surface grade | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |

Legend

- Topsoil
- Sand
- Fill
- Silt
- ▽ - Approximate Water Level

Environmental Consulting & Technology, Inc.

# Soil Boring Log of RT-GB-6W



Rock-Tenn Site
431 Helen Street
Otsego, MI

ECT Project # 100925.1200

| | | | |
|---|---|---|---|
| Date Completed: | 2/5/13 | Boring Location: | Between building structures and south of main manufac. building (REC 6). |
| Hole Diameter: | 2.5 inches | | |
| Drilling Company: | Fibertec, Inc. | | |
| Drilling Method: | Geoprobe | Surface Elevation: | na |
| ECT Rep: | J. Bartholomew | | |

| Depth in Feet | USCS | Graphic | PID (ppm) | Sample ID | Recovery (inches) | DESCRIPTION | REMARKS | Water Level |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | 1" FILL MATERIAL, wood debris, railroad ties | | |
| 1 | SW | | | | | 1-16" Dark brown, fine to medium SAND, some gravel | | |
| 2 | SP | | | | 40 | 16-28" Light brown, fine SAND, damp | | |
| 3 | | | | | | 28-40" Brown, fine to medium, SAND, damp | | |
| 4 | SW | | | | | | | |
| 5 | | | | | | 37" Brown, fine to course SAND, damp to saturated | | |
| 6 | | | | | | | | |
| 7 | SW | | | | 41 | | | |
| 8 | | | | | | 37-40" Brown, course SAND, large gravel (0.5"), saturated | | ▽ |
| 9 | SP | | | | | | Temporary monitoring well screen is set from 7 to 12 feet bsg. | |
| 10 | | | | | | 12" Brown and gray, stiff clay, moist | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | CL | | | | 12 | | | |
| 14 | | | | | | | | |
| 15 | | | | | | End of boring 15' below surface grade | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |

Legend

- Topsoil
- Sand
- Fill
- Clay
- Sand & Gravel
- ▽ - Approximate Water Level

ECT
Environmental Consulting & Technology, Inc.

# Soil Boring Log of RT-GB-7W



Rock-Tenn Site
431 Helen Street
Otsego, MI

ECT Project # 100925.1200

| | | | |
|---|---|---|---|
| Date Completed: | 2/5/13 | Boring Location: | Between building structures and south of main manufac. building (REC 6). |
| Hole Diameter: | 2.5 inches | | |
| Drilling Company: | Fibertec, Inc. | | |
| Drilling Method: | Geoprobe | Surface Elevation: | na |
| ECT Rep: | J. Bartholomew | | |

| Depth in Feet | USCS | Graphic | PID (ppm) | Sample ID | Recovery (inches) | DESCRIPTION | REMARKS | Water Level |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | 1" Topsoil | | |
| 1 | FILL | | | | | 1-13" Light brown to brown FILL SAND, trace coal | | |
| 2 | | | | | | 13-38" Brown, fine to medium SAND, trace fine gravel, damp | | |
| 3 | SW | | | | 38 | | | |
| 4 | | | | | | | | |
| 5 | | | | | | No recovery | | |
| 6 | | | | | | | | |
| 7 | | | | | N/A | | | |
| 8 | | | | | | | | ∇ |
| 9 | | | | | | | Temporary monitoring well screen is set from 7 to 12 feet bsg. | |
| 10 | | | | | | 56" Brown, fine to coarse SAND, trace fine gravel, saturated to 45", wet at 45-46" | | |
| 11 | | | | | | | | |
| 12 | SW | | | | 56 | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | End of boring 15' below surface grade | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |

Legend

- Topsoil
- Sand
- Fill
- Clay
- Sand & Gravel
- ∇ - Approximate Water Level

ECT
Environmental Consulting & Technology, Inc.

# Soil Boring Log of RT-GB-8



Rock-Tenn Site
431 Helen Street
Otsego, MI

ECT Project # 100925.1200

| | | | |
|---|---|---|---|
| Date Completed: | 2/5/13 | Boring Location: | Within the former waste-water lagoon area (REC 4). |
| Hole Diameter: | 2.5 inches | | |
| Drilling Company: | Fibertec, Inc. | | |
| Drilling Method: | Geoprobe | Surface Elevation: | na |
| ECT Rep: | J. Bartholomew | | |

| Depth in Feet | USCS | Graphic | PID (ppm) | Sample ID | Recovery (inches) | DESCRIPTION | REMARKS | Water Level |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | | | |
| 1 | | | | | | 12" Topsoil | | |
| 2 | | | | | 42 | 12-42" Light brown, medium SAND, damp/moist | | |
| 3 | SP | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | SP | | | | 36 | 23" Light brown, medium SAND, damp/moist, wet at 6.5 feet | | |
| 7 | | | | | | | | |
| 8 | SP | | | | | 23-36" Medium SAND with black staining, gravel, wet | | |
| 9 | | | | | | | | |
| 10 | | | | (9-10') | | | | ▽ |
| 11 | | | | | | 12" Sluff | Temporary monitoring well screen is set from 5.5 to 15.5 feet bsg. | |
| 12 | | | | | 42 | 12-42" Brown, medium FILL SAND with black staining, slag saturated | | |
| 13 | FILL | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | 48" Dark gray SAND, some slag and brick, saturated | | |
| 16 | | | | | | | | |
| 17 | SP | | | | 56 | | | |
| 18 | | | | | | | | |
| 19 | | | | | | 48-56" Gray, course SAND, mixed gravel | | |
| 20 | SP | | | | | | | |
| | | | | | | End of boring 20' below surface grade | | |

Legend

- Topsoil
- Sand
- Fill

▽ - Approximate Water Level

Environmental Consulting & Technology, Inc.

# Soil Boring Log of RT-GB-9



Rock-Tenn Site
431 Helen Street
Otsego, MI

ECT Project # 100925.1200

| | | | |
|---|---|---|---|
| Date Completed: | 2/5/13 | Boring Location: | Within the former waste-water lagoon area (REC 4) east of RT-GB-8. |
| Hole Diameter: | 2.5 inches | | |
| Drilling Company: | Fibertec, Inc. | | |
| Drilling Method: | Geoprobe | Surface Elevation: | na |
| ECT Rep: | J. Bartholomew | | |

| Depth in Feet | USCS | Graphic | PID (ppm) | Sample ID | Recovery (inches) | DESCRIPTION | REMARKS | Water Level |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | 8" Topsoil | | |
| 1 | | | | | | 8-20" Light brown, fine SAND, damp | | |
| 2 | | | | | | | | |
| 3 | SP | | | | 20 | | | |
| 4 | | | | | | | | |
| 5 | | | | | | 11" Light brown, fine SAND, wet to 7' | | |
| 6 | SP | | | | | | | |
| 7 | | | | | | 11-21" Light tan, medium SAND, wet | | |
| 8 | | | | | 24 | 21-24" FILL MATERIAL, slag and brick | | |
| 9 | FILL | | | | | | | |
| 10 | | | | | | 6" Sluff | | |
| 11 | FILL | | | | | 6-24" Black FILL MATERIAL, slag, moist/wet | | |
| 12 | | | | (12-13') | | 24-28" Tan, coarse SAND and mixed Gravel, moist/wet | | |
| 13 | SP-GP | | | | 28 | | | |
| 14 | | | | | | | | |
| 15 | | | | | | 3" Sluff | | |
| 16 | SP-GP | | | | | 3-22" Course SAND with, mixed Gravel, moist/wet | | |
| 17 | | | | | | 22-39" Dark gray, course SAND, with black staining, saturated | Temporary monitoring well screen is set from 15 to 20 feet bsg. | ▽ |
| 18 | | | | | 39 | | | |
| 19 | SP | | | | | | | |
| 20 | | | | | | End of boring 20' below surface grade | | |

Legend

- Topsoil
- Sand
- Fill
- Sand & Gravel
- ▽ - Approximate Water Level

Environmental Consulting & Technology, Inc.

# Soil Boring Log of RT-GB-10



Rock-Tenn Site
431 Helen Street
Otsego, MI

ECT Project # 100925.1200

| | | | |
|---|---|---|---|
| Date Completed: | 2/6/13 | Boring Location: | South of former large AST (REC 3). |
| Hole Diameter: | 2.5 inches | | |
| Drilling Company: | Fibertec, Inc. | | |
| Drilling Method: | Geoprobe | Surface Elevation: | na |
| ECT Rep: | J. Bartholomew | | |

| Depth in Feet | USCS | Graphic | PID (ppm) | Sample ID | Recovery (inches) | DESCRIPTION | REMARKS | Water Level |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | 4" Concrete | | |
| 1 | | | 0.0 | | | 4-10" Black FILL MATERIAL, coal and slag | | |
| 2 | | | | | | 10-32" Brown to dark brown FILL SAND, trace coal, brick, slag damp | | |
| 3 | FILL | | | | 32 | | | |
| 4 | | | | | | | | |
| 5 | | | | | | 8" Sluff | | |
| 6 | FILL | | | | | 8-18" FILL MATERIAL, coal, brick and slag | | |
| 7 | | | 0.0 | | | 18-24" Brown, fine SAND, moist | | |
| 8 | | | | (7-8') | 44 | 24-44" Brown to light brown, fine to coarse SAND, saturated | | ▽ |
| 9 | SW | | | | | | | |
| 10 | | | | | | End of boring 10' below surface grade | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |

Legend

- Concrete
- Sand
- Fill

▽ - Approximate Water Level

Environmental Consulting & Technology, Inc.

# Soil Boring Log of RT-GB-11



Rock-Tenn Site
431 Helen Street
Otsego, MI

ECT Project # 100925.1200

| | | | |
|---|---|---|---|
| Date Completed: | 2/6/13 | Boring Location: | North of former large AST (REC 3). |
| Hole Diameter: | 2.5 inches | | |
| Drilling Company: | Fibertec, Inc. | | |
| Drilling Method: | Geoprobe | Surface Elevation: | na |
| ECT Rep: | J. Bartholomew | | |

| Depth in Feet | USCS | Graphic | PID (ppm) | Sample ID | Recovery (inches) | DESCRIPTION | REMARKS | Water Level |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | 2" Topsoil | | |
| 1 | | | 0.0 | | | 2-12" FILL MATERIAL, coal and brick debris | | |
| | | | | | | 12-19" Medium FILL SAND, trace coal and brick | | |
| 2 | | | 0.0 | | | 19-25" FILL MATERIAL, coal, brick, and slag | | |
| 3 | FILL | | | | 25 | | | |
| 4 | | | | (4-5') | | | | |
| 5 | | | | | | 8" Sluff | | |
| 6 | SP | | | | | 8-17" Brown, orange-brown, medium SAND, wet | | |
| 7 | | | | | | 17-29" Medium to coarse SAND, mixed gravel, saturated | | |
| 8 | SW | | 0.0 | | 29 | | | ▽ |
| 9 | | | | | | | | |
| 10 | | | | | | End of boring 10' below surface grade | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |

Legend

- Topsoil
- Sand
- Fill
- ▽ - Approximate Water Level

Environmental Consulting & Technology, Inc.

# Soil Boring Log of RT-GB-12



Rock-Tenn Site
431 Helen Street
Otsego, MI

ECT Project # 100925.1200

| | | | |
|---|---|---|---|
| Date Completed: | 2/6/13 | Boring Location: | North of main manufac. building (REC 5) |
| Hole Diameter: | 2.5 inches | | |
| Drilling Company: | Fibertec, Inc. | | |
| Drilling Method: | Geoprobe | Surface Elevation: | na |
| ECT Rep: | J. Bartholomew | | |

| Depth in Feet | USCS | Graphic | PID (ppm) | Sample ID | Recovery (inches) | DESCRIPTION | REMARKS | Water Level |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | 12" Concrete | | |
| 1 | | | | | | 12-35" Brown to light brown, fine to medium SAND, trace fine gravel, damp | | |
| 2 | | | | | 35 | | | |
| 3 | SW | | 0.0 | | | | | |
| 4 | | | | (3-5') | | | | |
| 5 | | | | | | 10" Sluff | | |
| 6 | | | | | | 10-15" Brown to light brown, fine to medium SAND, trace fine gravel, damp | | |
| 7 | | | | | 15 | | | |
| 8 | SW | | 0.0 | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | End of boring 10' below surface grade | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |

Legend

- Concrete
- Sand

Environmental Consulting & Technology, Inc.

# Soil Boring Log of RT-GB-13



Rock-Tenn Site
431 Helen Street
Otsego, MI

ECT Project # 100925.1200

| | | | |
|---|---|---|---|
| Date Completed: | 2/6/13 | Boring Location: | North of main manufac. building (REC 5) |
| Hole Diameter: | 2.5 inches | | |
| Drilling Company: | Fibertec, Inc. | | |
| Drilling Method: | Geoprobe | Surface Elevation: | na |
| ECT Rep: | J. Bartholomew | | |

| Depth in Feet | USCS | Graphic | PID (ppm) | Sample ID | Recovery (inches) | DESCRIPTION | REMARKS | Water Level |
|---|---|---|---|---|---|---|---|---|
| 0 | SP | | 0.0 | (3-5') | 42 | 3" Asphalt<br>3-17" Concrete<br>17-42" Brown to light brown, medium SAND, trace fine gravel<br>damp | | |
| 5 | | | | | | End of boring 5' below surface grade | | |

Legend

- Concrete
- Asphalt
- Sand

Environmental Consulting & Technology, Inc.

# Soil Boring Log of RT-GB-14



Rock-Tenn Site
431 Helen Street
Otsego, MI

ECT Project # 100925.1200

| | | | |
|---|---|---|---|
| Date Completed: | 2/6/13 | Boring Location: | North of main manufac. building (REC 5) |
| Hole Diameter: | 2.5 inches | | |
| Drilling Company: | Fibertec, Inc. | | |
| Drilling Method: | Geoprobe | Surface Elevation: | na |
| ECT Rep: | J. Bartholomew | | |

| Depth in Feet | USCS | Graphic | PID (ppm) | Sample ID | Recovery (inches) | DESCRIPTION | REMARKS | Water Level |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | 3" Asphalt | | |
| 1 | | | | | | 3-13" Concrete | | |
| | SP | | 0.0 | (1-2') | | 13-23" Brown, medium, SAND, damp | | |
| 2 | FILL | | | | 37 | 23"-26" Concrete | | |
| 3 | | | | | | 26-37" Light brown, medium SAND, damp | | |
| | SP | | 0.0 | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | End of boring 5' below surface grade | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |

Legend

- Concrete
- Asphalt
- Fill
- Sand

Environmental Consulting & Technology, Inc.

# Soil Boring Log of RT-GB-15



Rock-Tenn Site
431 Helen Street
Otsego, MI

ECT Project # 100925.1200

| | | | |
|---|---|---|---|
| Date Completed: | 2/6/13 | Boring Location: | North of main manufac. building (REC 5) |
| Hole Diameter: | 2.5 inches | | |
| Drilling Company: | Fibertec, Inc. | | |
| Drilling Method: | Geoprobe | Surface Elevation: | na |
| ECT Rep: | J. Bartholomew | | |

| Depth in Feet | USCS | Graphic | PID (ppm) | Sample ID | Recovery (inches) | DESCRIPTION | REMARKS | Water Level |
|---|---|---|---|---|---|---|---|---|
| 0 | FILL | | | (0.5-1') | | 4" Asphalt, coal, slag FILL MATERIAL 3" under asphalt | | |
| 1 | SP | | 0.0 | | | 7-11" Brown, medium SAND, trace fine gravel, damp | | |
| 2 | | | | | 27 | 11-27" FILL MATERIAL, coal, brick, and slag | | |
| 3 | | | 0.0 | | | | | |
| 4 | FILL | | | | | | | |
| 5 | | | | | | 11" FILL MATERIAL, coal, brick, and slag | | |
| 6 | | | | | | | | |
| 7 | | | | | 20 | 11-20" Brown, medium SAND, damp/moist | | |
| 8 | SP | | 0.0 | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | End of boring 10' below surface grade | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |

Legend

- Fill
- Sand

Environmental Consulting & Technology, Inc.

# Soil Boring Log of RT-GB-16



Rock-Tenn Site
431 Helen Street
Otsego, MI

ECT Project # 100925.1200

| | | | |
|---|---|---|---|
| Date Completed: | 2/5/13 | Boring Location: | East of former drum storage location warehouse (REC 2) |
| Hole Diameter: | 2.5 inches | | |
| Drilling Company: | Fibertec, Inc. | | |
| Drilling Method: | Geoprobe | Surface Elevation: | na |
| ECT Rep: | J. Bartholomew | | |

| Depth in Feet | USCS | Graphic | PID (ppm) | Sample ID | Recovery (inches) | DESCRIPTION | REMARKS | Water Level |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | 2" Topsoil | | |
| 1 | FILL | | 0.0 | (0.5-1') | 26 | 2-26" Black FILL MATERIAL, slag, brick, coal debris | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | 42 | 21" Black FILL MATERIAL, coal, slag, moist/wet | | |
| 6 | FILL | | 0.0 | | | | | |
| 7 | | | | | | 21-42" Black to gray, fine to medium SAND, silty, trace odor | | |
| 8 | SW | | 0.0 | (8-9') | | | | |
| 9 | | | | | | | | |
| 10 | | | | | 36 | 19" Black to gray, fine to medium SAND, saturated | | ▽ |
| 11 | SW | | | | | | | |
| 12 | | | | | | 19-36" Brown, fine to course SAND, mixed gravel, saturated | | |
| 13 | SW | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | End of boring 15' below surface grade | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |

Legend

- Topsoil
- Sand
- Fill

▽ - Approximate Water Level

Environmental Consulting & Technology, Inc.

# Soil Boring Log of RT-GB-17



Rock-Tenn Site
431 Helen Street
Otsego, MI

ECT Project # 100925.1200

| | | | |
|---|---|---|---|
| Date Completed: | 2/6/13 | Boring Location: | East of former drum storage location warehouse (REC 2) |
| Hole Diameter: | 2.5 inches | | |
| Drilling Company: | Fibertec, Inc. | | |
| Drilling Method: | Geoprobe | Surface Elevation: | na |
| ECT Rep: | J. Bartholomew | | |

| Depth in Feet | USCS | Graphic | PID (ppm) | Sample ID | Recovery (inches) | DESCRIPTION | REMARKS | Water Level |
|---|---|---|---|---|---|---|---|---|
| 0 | FILL | | 0.0 | (1-2') | 17 | 1" Topsoil<br>1-17" FILL MATERIAL, brick, slag, and coal | | |
| 5 | SW | | | | 37 | 7" Sluff<br>7-37" Brown to light brown, fine to medium SAND, trace fine gravel, moist/wet | | |
| 10 | | | | | | End of boring 10' below surface grade | | |

Legend

- Topsoil
- Sand
- Fill

Environmental Consulting & Technology, Inc.

# Soil Boring Log of RT-GB-18



Rock-Tenn Site
431 Helen Street
Otsego, MI

ECT Project # 100925.1200

| | | | |
|---|---|---|---|
| Date Completed: | 2/6/13 | Boring Location: | West of former drum storage location warehouse (REC 2) |
| Hole Diameter: | 2.5 inches | | |
| Drilling Company: | Fibertec, Inc. | | |
| Drilling Method: | Geoprobe | Surface Elevation: | na |
| ECT Rep: | J. Bartholomew | | |

| Depth in Feet | USCS | Graphic | PID (ppm) | Sample ID | Recovery (inches) | DESCRIPTION | REMARKS | Water Level |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | | | |
| 1 | FILL | | 0.0 | (3-5') | 20 | 2" Topsoil<br>2-20" FILL MATERIAL, slag, and coal | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | 3" Sluff | | |
| 6 | | | | | | 3-27" Medium-fine SAND, moist to wet | | |
| 7 | | | | | 27 | | | |
| 8 | SW | | 0.0 | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | End of boring 10' below surface grade | | ▽ |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |

Legend

- Topsoil
- Sand
- Fill
- ▽ - Approximate Water Level

Environmental Consulting & Technology, Inc.

# Soil Boring Log of RT-GB-19



Rock-Tenn Site
431 Helen Street
Otsego, MI

ECT Project # 100925.1200

| | | | |
|---|---|---|---|
| Date Completed: | 2/6/13 | Boring Location: | West of former drum storage location warehouse (REC 2) |
| Hole Diameter: | 2.5 inches | | |
| Drilling Company: | Fibertec, Inc. | | |
| Drilling Method: | Geoprobe | Surface Elevation: | na |
| ECT Rep: | J. Bartholomew | | |

| Depth in Feet | USCS | Graphic | PID (ppm) | Sample ID | Recovery (inches) | DESCRIPTION | REMARKS | Water Level |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | 2" Topsoil | | |
| 1 | FILL | | | | 30 | 2-30" FILL MATERIAL, slag, coal, brick debris | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | FILL | | | | 21 | 21" FILL MATERIAL, slag, coal, brick debris | | |
| 8 | | | | | | | | |
| 9 | | | | (8-10') | | | | |
| 10 | | | | | | | | |
| 11 | SW | | | | | 24" Dark to light gray, fine to medium SAND, some gravel, wet | | |
| 12 | SP | | | | 45 | 24-37" Light gray, medium SAND, trace fine gravel, saturated | | ▽ |
| 13 | | | | | | 37-45" Brown, coarse SAND and well-graded GRAVEL, saturated | | |
| 14 | SP-GW | | | | | | | |
| 15 | | | | | | End of boring 15' below surface grade | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |

Legend

- Topsoil
- Sand
- Fill
- Sand & Gravel
- ▽ - Approximate Water Level

ECT
Environmental Consulting & Technology, Inc.

# Soil Boring Log of RT-GB-20



Rock-Tenn Site
431 Helen Street
Otsego, MI

ECT Project # 100925.1200

| | | | |
|---|---|---|---|
| Date Completed: | 2/6/13 | Boring Location: | South of fire suppression pump house with diesel AST (REC 3). |
| Hole Diameter: | 2.5 inches | | |
| Drilling Company: | Fibertec, Inc. | | |
| Drilling Method: | Geoprobe | Surface Elevation: | na |
| ECT Rep: | J. Bartholomew | | |

| Depth in Feet | USCS | Graphic | PID (ppm) | Sample ID | Recovery (inches) | DESCRIPTION | REMARKS | Water Level |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | 4" Topsoil | | |
| 1 | FILL | | | | | 4-7" Concrete | | |
| | | | | | | 7-19" FILL MATERIAL, brick, coal and slag | | |
| 2 | | | | (1-3') | | 19-24" Brown PEAT, moist | | |
| 3 | PT | | | | 24 | | | |
| 4 | | | | | | | | |
| 5 | | | | | | 38" Coarse grained SAND, mixed gravel, saturated | | ▽ |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | SP | | | | 38 | | | |
| 9 | | | | | | | | |
| 10 | | | | | | End of boring 10' below surface grade | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |

Legend

- Topsoil
- Peat
- Fill
- Concrete
- Sand
- ▽ - Approximate Water Level

ECT
Environmental Consulting & Technology, Inc.

# Soil Boring Log of RT-GB-21



Rock-Tenn Site
431 Helen Street
Otsego, MI

ECT Project # 100925.1200

| | | | |
|---|---|---|---|
| Date Completed: | 2/6/13 | Boring Location: | West of fire suppression pump house with diesel AST (REC 3). |
| Hole Diameter: | 2.5 inches | | |
| Drilling Company: | Fibertec, Inc. | | |
| Drilling Method: | Geoprobe | Surface Elevation: | na |
| ECT Rep: | J. Bartholomew | | |

| Depth in Feet | USCS | Graphic | PID (ppm) | Sample ID | Recovery (inches) | DESCRIPTION | REMARKS | Water Level |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | 2" Topsoil | | |
| 1 | | | | | | 2-29" FILL MATERIAL, coal, slag, concrete at 5-7" depth | | |
| 2 | | | | (1-3') | 31 | | | |
| 3 | | | | | | 29-31" Brown , fine SAND | | |
| 4 | | | | | | | | |
| 5 | | | | | | End of boring 5' below surface grade | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
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| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |

Legend

- Topsoil
- Fill
- Sand

ECT
Environmental Consulting & Technology, Inc.

# Soil Boring Log of RT-GB-22



Rock-Tenn Site
431 Helen Street
Otsego, MI

ECT Project # 100925.1200

| | | | |
|---|---|---|---|
| Date Completed: | 2/6/13 | Boring Location: | North of fire suppression pump house with diesel AST (REC 3). |
| Hole Diameter: | 2.5 inches | | |
| Drilling Company: | Fibertec, Inc. | | |
| Drilling Method: | Geoprobe | Surface Elevation: | na |
| ECT Rep: | J. Bartholomew | | |

| Depth in Feet | USCS | Graphic | PID (ppm) | Sample ID | Recovery (inches) | DESCRIPTION | REMARKS | Water Level |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | 2" Topsoil | | |
| 1 | | | | | | 2-32" FILL MATERIAL, coal, slag, intermixed with light brown sand lens at 16-20" | | |
| 2 | | | | | | | | |
| 3 | FILL | | | | 32 | | | |
| 4 | | | | (3-5') | | | | |
| 5 | | | | | | 4" Sluff | | |
| 6 | FILL | | | | | 4-11" FILL MATERIAL, coal, slag, intermixed with light brown sand lens at 16-20", wet | | ▽ |
| 7 | SP | | | | | 11-18" Tan, coarse SAND, mixed gravel, saturated | | |
| 8 | | | | | 22 | 18-22" Well graded, fine to 1" GRAVEL | | |
| 9 | GW | | | | | | | |
| 10 | | | | | | End of boring 10' below surface grade | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |

Legend

- Topsoil
- Sand
- Fill
- Gravel
- ▽ - Approximate Water Level

Environmental Consulting & Technology, Inc.

# Soil Boring Log of RT-GB-23



Rock-Tenn Site
431 Helen Street
Otsego, MI

ECT Project # 100925.1200

| | | | |
|---|---|---|---|
| Date Completed: | 2/6/13 | Boring Location: | East of fire suppression pump house with diesel AST (REC 3). |
| Hole Diameter: | 2.5 inches | | |
| Drilling Company: | Fibertec, Inc. | | |
| Drilling Method: | Geoprobe | Surface Elevation: | na |
| ECT Rep: | J. Bartholomew | | |

| Depth in Feet | USCS | Graphic | PID (ppm) | Sample ID | Recovery (inches) | DESCRIPTION | REMARKS | Water Level |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | 2" Topsoil | | |
| 1 | FILL | | | (1-3') | 33 | 2-30" FILL MATERIAL, coal, slag, brick, with light brown sand lens at 16-19" | | |
| 2 | | | | | | | | |
| 3 | | | | | | 30-33" Peat | | |
| 4 | PT | | | | | | | |
| 5 | | | | | | End of boring 5' below surface grade | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
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| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |

Legend

- Topsoil
- Peat
- Fill Material

Environmental Consulting & Technology, Inc.

# Soil Boring Log of RT-GB-24



Rock-Tenn Site
431 Helen Street
Otsego, MI

ECT Project # 100925.1200

| | | | |
|---|---|---|---|
| Date Completed: | 2/6/13 | Boring Location: | Suspected transformer dismantling area (REC 1) |
| Hole Diameter: | 2.5 inches | | |
| Drilling Company: | Fibertec, Inc. | | |
| Drilling Method: | Geoprobe | Surface Elevation: | na |
| ECT Rep: | J. Bartholomew | | |

| Depth in Feet | USCS | Graphic | PID (ppm) | Sample ID | Recovery (inches) | DESCRIPTION | REMARKS | Water Level |
|---|---|---|---|---|---|---|---|---|
| 0 | FILL | | | (0.5-1') | 39 | 4" Asphalt | | |
| 1 | | | | | | 4-13" Brown, medium, FILL SAND, trace coal, brick, damp | | |
| 2 | | | | | | 13-15" Concrete | | |
| 3 | | | | | | 15-22" Dark brown, medium FILL SAND, concrete debris 20-22" damp | | |
| 4 | SW | | | | | 22-35" Dark brown, medium FILL SAND | | |
| 5 | | | | | | 35-39" Brown, fine to medium SAND, trace fine gravel, damp | | |
| 6 | | | | | | End of boring 5' below surface grade | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
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| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |

Legend

- Asphalt
- Fill
- Sand

Environmental Consulting & Technology, Inc.

# Soil Boring Log of RT-GB-25



Rock-Tenn Site
431 Helen Street
Otsego, MI

ECT Project # 100925.1200

| | | | |
|---|---|---|---|
| Date Completed: | 2/6/13 | Boring Location: | Suspected transformer dismantling area (REC 1) |
| Hole Diameter: | 2.5 inches | | |
| Drilling Company: | Fibertec, Inc. | | |
| Drilling Method: | Geoprobe | Surface Elevation: | na |
| ECT Rep: | J. Bartholomew | | |

| Depth in Feet | USCS | Graphic | PID (ppm) | Sample ID | Recovery (inches) | DESCRIPTION | REMARKS | Water Level |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | | | |
| 1 | FILL | | | (0.5-1') | 40 | 4" Asphalt<br>4-33" Dark and light brown, medium FILL SAND, trace coal and slag, trace fine gravel, damp | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | SW | | | | | 33-40" Light brown, medium to course, SAND, damp to moist | | |
| 5 | | | | | | End of boring 5' below surface grade | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
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| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |

Legend

- Asphalt
- Fill
- Sand

Environmental Consulting & Technology, Inc.

# Soil Boring Log of RT-GB-26



Rock-Tenn Site
431 Helen Street
Otsego, MI

ECT Project # 100925.1200

| | | | |
|---|---|---|---|
| Date Completed: | 2/6/13 | Boring Location: | Suspected transformer dismantling area (REC 1) |
| Hole Diameter: | 2.5 inches | | |
| Drilling Company: | Fibertec, Inc. | | |
| Drilling Method: | Geoprobe | Surface Elevation: | na |
| ECT Rep: | J. Bartholomew | | |

| Depth in Feet | USCS | Graphic | PID (ppm) | Sample ID | Recovery (inches) | DESCRIPTION | REMARKS | Water Level |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | | | |
| 1 | FILL | | | (0.5-1') | | 4" Asphalt | | |
| 2 | | | | | 50 | 4-21" Light to dark brown, medium FILL SAND, trace fine gravel damp | | |
| 3 | SP | | | | | 21-50" Light brown, medium SAND, mixed gravel, damp | | |
| 4 | | | | | | | | |
| 5 | | | | | | End of boring 5' below surface grade | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
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| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |

Legend

- Asphalt
- Fill
- Sand

Environmental Consulting & Technology, Inc.

# Soil Boring Log of RT-GB-27



Rock-Tenn Site
431 Helen Street
Otsego, MI

ECT Project # 100925.1200

| | | | |
|---|---|---|---|
| Date Completed: | 2/6/13 | Boring Location: | Suspected transformer dismantling area (REC 1) |
| Hole Diameter: | 2.5 inches | | |
| Drilling Company: | Fibertec, Inc. | | |
| Drilling Method: | Geoprobe | Surface Elevation: | na |
| ECT Rep: | J. Bartholomew | | |

| Depth in Feet | USCS | Graphic | PID (ppm) | Sample ID | Recovery (inches) | DESCRIPTION | REMARKS | Water Level |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | | | |
| 1 | FILL | | | (0.5-1') | 55 | 4" Asphalt<br>4-30" Brown to dark brown, medium, FILL SAND, some gravel | | |
| 2 | | | | | | | | |
| 3 | SP | | | | | 30-55" Light brown, medium SAND, some gravel, damp | | |
| 4 | | | | | | | | |
| 5 | | | | | | End of boring 5' below surface grade | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
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| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |

Legend

- Asphalt
- Fill
- Sand

Environmental Consulting & Technology, Inc.

# Soil Boring Log of RT-GB-28



Rock-Tenn Site
431 Helen Street
Otsego, MI

ECT Project # 100925.1200

| | | | |
|---|---|---|---|
| Date Completed: | 2/6/13 | Boring Location: | Suspected transformer dismantling area (REC 1) |
| Hole Diameter: | 2.5 inches | | |
| Drilling Company: | Fibertec, Inc. | | |
| Drilling Method: | Geoprobe | Surface Elevation: | na |
| ECT Rep: | J. Bartholomew | | |

| Depth in Feet | USCS | Graphic | PID (ppm) | Sample ID | Recovery (inches) | DESCRIPTION | REMARKS | Water Level |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | 4" Asphalt | | |
| 1 | FILL | | | (0.5-1') | 45 | 4-30" Dark brown, medium FILL SAND, trace coal, brick, concrete | | |
| 2 | | | | | | | | |
| 3 | SP | | | | | 30-45" Brown, medium SAND, trace fine gravel, damp | | |
| 4 | | | | | | | | |
| 5 | | | | | | End of boring 5' below surface grade | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
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| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |

Legend

- Asphalt
- Fill
- Sand

Environmental Consulting & Technology, Inc.

# Soil Boring Log of RT-GB-29



Rock-Tenn Site
431 Helen Street
Otsego, MI

ECT Project # 100925.1200

| | | | |
|---|---|---|---|
| Date Completed: | 2/6/13 | Boring Location: | Suspected transformer dismantling area (REC 1) |
| Hole Diameter: | 2.5 inches | | |
| Drilling Company: | Fibertec, Inc. | | |
| Drilling Method: | Geoprobe | Surface Elevation: | na |
| ECT Rep: | J. Bartholomew | | |

| Depth in Feet | USCS | Graphic | PID (ppm) | Sample ID | Recovery (inches) | DESCRIPTION | REMARKS | Water Level |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | | | |
| 1 | FILL | | | (0.5-1') | | 5" Asphalt<br>5-24" FILL MATERIAL, slag and coal debris | | |
| 2 | | | | | 31 | | | |
| 3 | SP | | | | | 24-31" Light to dark brown SAND, trace fine gravel, damp | | |
| 4 | | | | | | | | |
| 5 | | | | | | End of boring 5' below surface grade | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
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| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |

Legend

- Asphalt
- Fill
- Sand

ECT
Environmental Consulting & Technology, Inc.

# Soil Boring Log of RT-GB-30



Rock-Tenn Site
431 Helen Street
Otsego, MI

ECT Project # 100925.1200

| | | | |
|---|---|---|---|
| Date Completed: | 2/6/13 | Boring Location: | Suspected transformer dismantling area (REC 1) |
| Hole Diameter: | 2.5 inches | | |
| Drilling Company: | Fibertec, Inc. | | |
| Drilling Method: | Geoprobe | Surface Elevation: | na |
| ECT Rep: | J. Bartholomew | | |

| Depth in Feet | USCS | Graphic | PID (ppm) | Sample ID | Recovery (inches) | DESCRIPTION | REMARKS | Water Level |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | | | |
| 1 | FILL | | | (0.5-1') | | 4" Asphalt<br>4-24" Dark brown FILL SAND with coal, slag, brick, trace fine gravel | | |
| 2 | | | | | 31 | | | |
| 3 | SP | | | | | 24-31" Brown, fine SAND, damp | | |
| 4 | | | | | | | | |
| 5 | | | | | | End of boring 5' below surface grade | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |

Legend

- Asphalt
- Fill
- Fill Material/Sand

Environmental Consulting & Technology, Inc.

# Soil Boring Log of RT-GB-31



Rock-Tenn Site
431 Helen Street
Otsego, MI

ECT Project # 100925.1200

| | | | |
|---|---|---|---|
| Date Completed: | 2/6/13 | Boring Location: | Suspected transformer dismantling area (REC 1) |
| Hole Diameter: | 2.5 inches | | |
| Drilling Company: | Fibertec, Inc. | | |
| Drilling Method: | Geoprobe | Surface Elevation: | na |
| ECT Rep: | J. Bartholomew | | |

| Depth in Feet | USCS | Graphic | PID (ppm) | Sample ID | Recovery (inches) | DESCRIPTION | REMARKS | Water Level |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | | | |
| 1 | FILL | | | (0.5-1') | 36 | 4" Asphalt<br>4-24" FILL MATERIAL, slag, brick | | |
| 2 | | | | | | 24-32" Brown, medium FILL SAND, trace coal | | |
| 3 | | | | | | 32-36" Brown, medium SAND, damp | | |
| 4 | SP | | | | | | | |
| 5 | | | | | | End of boring 5' below surface grade | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |

Legend

- Asphalt
- Fill
- Sand

Environmental Consulting & Technology, Inc.

# Soil Boring Log of RT-GB-32



Rock-Tenn Site
431 Helen Street
Otsego, MI

ECT Project # 100925.1200

| | | | |
|---|---|---|---|
| Date Completed: | 2/6/13 | Boring Location: | Suspected transformer dismantling area (REC 1) |
| Hole Diameter: | 2.5 inches | | |
| Drilling Company: | Fibertec, Inc. | | |
| Drilling Method: | Geoprobe | Surface Elevation: | na |
| ECT Rep: | J. Bartholomew | | |

| Depth in Feet | USCS | Graphic | PID (ppm) | Sample ID | Recovery (inches) | DESCRIPTION | REMARKS | Water Level |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | | | |
| 1 | FILL | | | (0.5-1') | | 4" Asphalt | | |
| | | | | | | 4-18" FILL MATERIAL, coal, brick, slag, limestone | | |
| 2 | | | | | | | | |
| 3 | SP | | | | 42 | 18-42" Brown, medium SAND, trace fine gravel | | |
| 4 | | | | | | | | |
| 5 | | | | | | End of boring 5' below surface grade | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |

Legend

- Asphalt
- Fill
- Sand

# Appendix B

## Soil and Groundwater Laboratory Analytical Reports

19-Feb-2013

John D`Addona
ECT, Inc
2200 Commonwealth Blvd
Suite 300
Ann Arbor, MI 48105

Re: **Rock-Tenn Soil 2/5/13 - 2/6/13** Work Order: **1302268**

Dear John,

ALS Environmental received 39 samples on 07-Feb-2013 05:30 PM for the analyses presented in the following report.

This is a REVISED REPORT. The Case Narrative provides information discussing the reason for issuing a revised report. The total number of pages in this revision is 134.

If you have any questions regarding these test results, please feel free to contact me.

Sincerely,

Ann Preston

Electronically approved by: Ann Preston

Ann Preston
Project Manager

Certificate No: MN331938

# ALS Group USA, Corp

Date: 19-Feb-13

**Client:** ECT, Inc
**Project:** Rock-Tenn Soil 2/5/13 - 2/6/13
**Work Order:** **1302268**

## Work Order Sample Summary

| Lab Samp ID | Client Sample ID | Matrix | Tag Number | Collection Date | Date Received | Hold |
|---|---|---|---|---|---|---|
| 1302268-01 | RT-GB-8 (9-10') | Soil | | 2/5/2013 14:10 | 2/7/2013 17:30 | ☐ |
| 1302268-02 | RT-GB-9 (12-13') | Soil | | 2/5/2013 14:50 | 2/7/2013 17:30 | ☐ |
| 1302268-03 | RT-GB-10 (7-8') | Soil | | 2/6/2013 09:00 | 2/7/2013 17:30 | ☐ |
| 1302268-04 | RT-GB-11 (4-5') | Soil | | 2/6/2013 09:20 | 2/7/2013 17:30 | ☐ |
| 1302268-05 | RT-GB-12 (3-5') | Soil | | 2/6/2013 09:55 | 2/7/2013 17:30 | ☐ |
| 1302268-06 | RT-GB-13 (3-5') | Soil | | 2/6/2013 10:15 | 2/7/2013 17:30 | ☐ |
| 1302268-07 | RT-GB-14 (1-2') | Soil | | 2/6/2013 10:25 | 2/7/2013 17:30 | ☐ |
| 1302268-08 | RT-GB-15 (0.5-1') | Soil | | 2/6/2013 10:45 | 2/7/2013 17:30 | ☐ |
| 1302268-09 | RT-GB-15 (0.5-1') DUP | Soil | | 2/6/2013 10:45 | 2/7/2013 17:30 | ☐ |
| 1302268-10 | RT-GB-16 (0.5-1') | Soil | | 2/6/2013 11:30 | 2/7/2013 17:30 | ☐ |
| 1302268-11 | RT-GB-16 (8-9') | Soil | | 2/6/2013 11:35 | 2/7/2013 17:30 | ☐ |
| 1302268-12 | RT-GB-17 (1-2') | Soil | | 2/6/2013 12:05 | 2/7/2013 17:30 | ☐ |
| 1302268-13 | RT-GB-18 (3-5') | Soil | | 2/6/2013 12:30 | 2/7/2013 17:30 | ☐ |
| 1302268-14 | RT-GB-19 (8-10') | Soil | | 2/6/2013 12:55 | 2/7/2013 17:30 | ☐ |
| 1302268-15 | RT-GB-20 (1-3') | Soil | | 2/6/2013 14:20 | 2/7/2013 17:30 | ☐ |
| 1302268-16 | RT-GB-21 (1-3') | Soil | | 2/6/2013 14:35 | 2/7/2013 17:30 | ☐ |
| 1302268-17 | RT-GB-22 (3-5') | Soil | | 2/6/2013 14:50 | 2/7/2013 17:30 | ☐ |
| 1302268-18 | RT-GB-22 (3-5') DUP | Soil | | 2/6/2013 14:50 | 2/7/2013 17:30 | ☐ |
| 1302268-19 | RT-GB-23 (1-3') | Soil | | 2/6/2013 15:10 | 2/7/2013 17:30 | ☐ |
| 1302268-20 | RT-GB-24 (0.5-1') | Soil | | 2/6/2013 15:55 | 2/7/2013 17:30 | ☐ |
| 1302268-21 | RT-GB-24 (4-5') | Soil | | 2/6/2013 16:00 | 2/7/2013 17:30 | ☐ |
| 1302268-22 | RT-GB-25 (0.5-1') | Soil | | 2/6/2013 16:10 | 2/7/2013 17:30 | ☐ |
| 1302268-23 | RT-GB-25 (4-5') | Soil | | 2/6/2013 16:15 | 2/7/2013 17:30 | ☐ |
| 1302268-24 | RT-GB-25 (4-5') DUP | Soil | | 2/6/2013 16:15 | 2/7/2013 17:30 | ☐ |
| 1302268-25 | RT-GB-26 (0.5-1') | Soil | | 2/6/2013 16:25 | 2/7/2013 17:30 | ☐ |
| 1302268-26 | RT-GB-26 (4-5') | Soil | | 2/6/2013 16:30 | 2/7/2013 17:30 | ☐ |
| 1302268-27 | RT-GB-27 (0.5-1') | Soil | | 2/6/2013 16:40 | 2/7/2013 17:30 | ☐ |
| 1302268-28 | RT-GB-27 (4-5') | Soil | | 2/6/2013 16:45 | 2/7/2013 17:30 | ☐ |
| 1302268-29 | RT-GB-28 (0.5-1') | Soil | | 2/6/2013 16:50 | 2/7/2013 17:30 | ☐ |
| 1302268-30 | RT-GB-28 (4-5') | Soil | | 2/6/2013 16:55 | 2/7/2013 17:30 | ☐ |
| 1302268-31 | RT-GB-29 (0.5-1') | Soil | | 2/6/2013 17:05 | 2/7/2013 17:30 | ☐ |
| 1302268-32 | RT-GB-29 (4-5') | Soil | | 2/6/2013 17:10 | 2/7/2013 17:30 | ☐ |
| 1302268-33 | RT-GB-30 (4-5') | Soil | | 2/6/2013 17:15 | 2/7/2013 17:30 | ☐ |
| 1302268-34 | RT-GB-30 (0.5-1') | Soil | | 2/6/2013 17:20 | 2/7/2013 17:30 | ☐ |
| 1302268-35 | RT-GB-31 (4-5') | Soil | | 2/6/2013 17:25 | 2/7/2013 17:30 | ☐ |
| 1302268-36 | RT-GB-31 (0.5-1') | Soil | | 2/6/2013 17:30 | 2/7/2013 17:30 | ☐ |
| 1302268-37 | RT-GB-32 (0.5-1') | Soil | | 2/6/2013 17:30 | 2/7/2013 17:30 | ☐ |
| 1302268-38 | RT-GB-32 (4-5') | Soil | | 2/6/2013 17:35 | 2/7/2013 17:30 | ☐ |
| 1302268-39 | Trip Bank | Soil | | 2/6/2013 | 2/7/2013 17:30 | ☐ |

**Client:** ECT, Inc
**Project:** Rock-Tenn Soil 2/5/13 - 2/6/13
**Work Order:** 1302268

# Case Narrative

This revised report includes results for Barium for samples 1302268-08, 1302268-09 and 1302268-14.

Batch 46326 LCS recovery for Carbon tetrachloride was outside of the lower control limit but within the Sporadic Marginal Exceedence limit for an analyte that is not a project-specific analyte of concern. No qualification is necessary for Carbon tetrachloride. Sample RT-GB-19 (8-10') MS/MSD recoveries for Chloroethane, Hexachloroethane and trans-1,4-Dichloro-2-butene were below the control limits. The corresponding reporting limits in the parent sample may be biased low for these 3 compounds. The RPD between the MS and MSD recoveries for 2-Butanone was outside of the control limit. The individual MS/MSD recoveries met quality control criteria. No data requires qualification.

Batch 46335 sample RT-GB-19 (8-10') MS/MSD recoveries for 2-Methylnaphthalene were below control limits. The amount of this compound found in the parent sample was greater than 4x the spiked amount. No data requires qualification for this compound. Several Semi-Volatile compounds had either the MS recovery or the MSD recovery that was outside control limits. All RPDs and either the MS or MSD met quality control criteria. No data requires qualification for these compounds. Di-n-butyl phthalate and Hexachlorocyclopentadiene MS/MSD recoveries were below control limits. The corresponding results or reporting limits in the parent sample may be biased low for these compounds. D-n-octyl phthalate and N-nitrosodiphenylamine MS/MSD recoveries were above control limits. The parent sample was ND for these compounds. No data requires qualification.

Sample 1302268-10 analyses for Semi-Volatiles had a high surrogate recovery due to matrix interference.

Batch 46343 sample RT-GB-19 (8-10') MS/MSD recoveries for Barium, Iron and Zinc were below control limits, however, the results in the parent sample were greater than 4x the spiked amount. No qualification is required for these elements. The MSD recovery for Copper and MS recovery for Arsenic were below control limits. Both the MS, or MSD, recovery and RPD met quality control criteria. No data requires qualification.

# ALS Group USA, Corp

Date: 19-Feb-13

**Client:** ECT, Inc
**Project:** Rock-Tenn Soil 2/5/13 - 2/6/13
**WorkOrder:** **1302268**

## QUALIFIERS, ACRONYMS, UNITS

| Qualifier | Description |
|---|---|
| * | Value exceeds Regulatory Limit |
| a | Not accredited |
| B | Analyte detected in the associated Method Blank above the Reporting Limit |
| E | Value above quantitation range |
| H | Analyzed outside of Holding Time |
| J | Analyte detected below quantitation limit |
| n | Not offered for accreditation |
| ND | Not Detected at the Reporting Limit |
| O | Sample amount is > 4 times amount spiked |
| P | Dual Column results percent difference > 40% |
| R | RPD above laboratory control limit |
| S | Spike Recovery outside laboratory control limits |
| U | Analyzed but not detected above the MDL |

| Acronym | Description |
|---|---|
| DUP | Method Duplicate |
| LCS | Laboratory Control Sample |
| LCSD | Laboratory Control Sample Duplicate |
| MBLK | Method Blank |
| MDL | Method Detection Limit |
| MQL | Method Quantitation Limit |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| PDS | Post Digestion Spike |
| PQL | Practical Quantitation Limit |
| RPD | Relative Percent Difference |
| SD | Serial Dilution |
| TDL | Target Detection Limit |

| Units Reported | Description |
|---|---|
| % of sample | Percent of Sample |
| µg/Kg | Micrograms per Kilogram |
| µg/Kg-dry | Micrograms per Kilogram Dry Weight |
| mg/Kg-dry | Milligrams per Kilogram Dry Weight |

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-8 (9-10') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/5/2013 2:10:00 PM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-01 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **MERCURY BY CVAA** | | | **SW7471** | | Prep Date: **2/13/2013** | | Analyst: **LR** |
| **Mercury** | **0.12** | **0.050** | **0.050** | | **mg/Kg-dry** | 1 | 2/13/2013 |
| **METALS BY ICP-MS** | | | **SW6020A** | | Prep Date: **2/11/2013** | | Analyst: **RH** |
| **Arsenic** | **4.6** | **0.22** | **0.10** | | **mg/Kg-dry** | 1 | 2/11/2013 |
| **Barium** | **50** | **1.0** | **1.0** | | **mg/Kg-dry** | 1 | 2/11/2013 |
| Boron | ND | 8.0 | 8.0 | | mg/Kg-dry | 1 | 2/11/2013 |
| **Cadmium** | **0.29** | **0.22** | **0.20** | | **mg/Kg-dry** | 1 | 2/11/2013 |
| **Chromium** | **8.5** | **2.0** | **2.0** | | **mg/Kg-dry** | 1 | 2/11/2013 |
| **Copper** | **17** | **1.0** | **1.0** | | **mg/Kg-dry** | 1 | 2/11/2013 |
| **Iron** | **16,000** | **8.9** | **5.0** | | **mg/Kg-dry** | 1 | 2/11/2013 |
| **Lead** | **13** | **1.0** | **1.0** | | **mg/Kg-dry** | 1 | 2/11/2013 |
| **Magnesium** | **1,800** | **22** | **4.0** | | **mg/Kg-dry** | 1 | 2/11/2013 |
| **Selenium** | **0.51** | **0.22** | **0.20** | | **mg/Kg-dry** | 1 | 2/11/2013 |
| **Silver** | **0.17** | **0.11** | **0.10** | | **mg/Kg-dry** | 1 | 2/11/2013 |
| Thallium | ND | 0.55 | 0.50 | | mg/Kg-dry | 1 | 2/11/2013 |
| **Zinc** | **110** | **1.1** | **1.0** | | **mg/Kg-dry** | 1 | 2/11/2013 |
| **SEMI-VOLATILE ORGANIC COMPOUNDS** | | | **SW8270** | | Prep Date: **2/11/2013** | | Analyst: **RM** |
| 1,1`-Biphenyl | ND | 410 | 0 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4,5-Trichlorophenol | ND | 300 | 300 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4,6-Trichlorophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dichlorophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dimethylphenol | ND | 410 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dinitrophenol | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dinitrotoluene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,6-Dinitrotoluene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Chloronaphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Chlorophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Methylnaphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Methylphenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Nitroaniline | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Nitrophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 3,3´-Dichlorobenzidine | ND | 2,000 | 2,000 | | µg/Kg-dry | 1 | 2/12/2013 |
| 3-Nitroaniline | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4,6-Dinitro-2-methylphenol | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Bromophenyl phenyl ether | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Chloro-3-methylphenol | ND | 280 | 280 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Chloroaniline | ND | 820 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Chlorophenyl phenyl ether | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Methylphenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

**Client:** ECT, Inc
**Work Order:** 1302268
**Project:** Rock-Tenn Soil 2/5/13 - 2/6/13
**Lab ID:** 1302268-01

**Client Sample ID:** RT-GB-8 (9-10')
**Collection Date:** 2/5/2013 2:10:00 PM
**Matrix:** SOIL

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| 4-Nitroaniline | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Nitrophenol | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| Acenaphthene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Acenaphthylene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Acetophenone | ND | 410 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Anthracene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Atrazine | ND | 410 | 50 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzaldehyde | ND | 410 | 0 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzo(a)anthracene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzo(a)pyrene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzo(b)fluoranthene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzo(g,h,i)perylene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzo(k)fluoranthene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Bis(2-chloroethoxy)methane | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Bis(2-chloroethyl)ether | ND | 200 | 100 | | µg/Kg-dry | 1 | 2/12/2013 |
| Bis(2-chloroisopropyl)ether | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| **Bis(2-ethylhexyl)phthalate** | **650** | **410** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| Butyl benzyl phthalate | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Caprolactam | ND | 410 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Carbazole | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Chrysene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Dibenzo(a,h)anthracene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Dibenzofuran | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Diethyl phthalate | ND | 410 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Dimethyl phthalate | ND | 410 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Di-n-butyl phthalate | ND | 410 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Di-n-octyl phthalate | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Fluoranthene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Fluorene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachlorobenzene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachlorobutadiene | ND | 200 | 50 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachlorocyclopentadiene | ND | 410 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachloroethane | ND | 300 | 300 | | µg/Kg-dry | 1 | 2/12/2013 |
| Indeno(1,2,3-cd)pyrene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Isophorone | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Naphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Nitrobenzene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| N-Nitrosodi-n-propylamine | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| N-Nitrosodiphenylamine | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Pentachlorophenol | ND | 410 | 20 | | µg/Kg-dry | 1 | 2/12/2013 |
| Phenanthrene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

**Client:** ECT, Inc
**Work Order:** 1302268
**Project:** Rock-Tenn Soil 2/5/13 - 2/6/13
**Lab ID:** 1302268-01

**Client Sample ID:** RT-GB-8 (9-10')
**Collection Date:** 2/5/2013 2:10:00 PM
**Matrix:** SOIL

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Phenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Pyrene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| *Surr: 2,4,6-Tribromophenol* | *80.4* | *34-140* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 2-Fluorobiphenyl* | *60.6* | *12-100* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 2-Fluorophenol* | *59.0* | *33-117* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 4-Terphenyl-d14* | *93.7* | *25-137* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: Nitrobenzene-d5* | *53.4* | *37-107* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: Phenol-d6* | *65.5* | *40-106* | | | *%REC* | 1 | 2/12/2013 |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260** | | Prep Date: **2/8/2013** | | Analyst: **RS** |
| 1,1,1,2-Tetrachloroethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,1,1-Trichloroethane | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,1,2,2-Tetrachloroethane | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,1,2-Trichloroethane | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,1-Dichloroethane | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,1-Dichloroethene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2,3-Trichloropropane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2,4-Trichlorobenzene | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2,4-Trimethylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2-Dibromo-3-chloropropane | ND | 39 | 10 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2-Dibromoethane | ND | 39 | 20 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2-Dichlorobenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2-Dichloroethane | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2-Dichloropropane | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,3,5-Trimethylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,3-Dichlorobenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,4-Dichlorobenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 2-Butanone | ND | 750 | 750 | | µg/Kg-dry | 1 | 2/8/2013 |
| 2-Hexanone | ND | 2,500 | 2,500 | | µg/Kg-dry | 1 | 2/8/2013 |
| 2-Methylnaphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/8/2013 |
| 4-Methyl-2-pentanone | ND | 2,500 | 2,500 | | µg/Kg-dry | 1 | 2/8/2013 |
| Acetone | ND | 1,000 | 1,000 | | µg/Kg-dry | 1 | 2/8/2013 |
| Acrylonitrile | ND | 130 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Benzene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Bromochloromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Bromodichloromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Bromomethane | ND | 200 | 200 | | µg/Kg-dry | 1 | 2/8/2013 |
| Carbon disulfide | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| Carbon tetrachloride | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Chlorobenzene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Chloroethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-8 (9-10') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/5/2013 2:10:00 PM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-01 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Chloroform | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Chloromethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| cis-1,2-Dichloroethene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| cis-1,3-Dichloropropene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Dibromochloromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Dibromomethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| Dichlorodifluoromethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| Diethyl ether | ND | 200 | 200 | | µg/Kg-dry | 1 | 2/8/2013 |
| Ethylbenzene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Hexachloroethane | ND | 300 | 300 | | µg/Kg-dry | 1 | 2/8/2013 |
| Isopropylbenzene | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| m,p-Xylene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Methyl iodide | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Methyl tert-butyl ether | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| Methylene chloride | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Naphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/8/2013 |
| n-Propylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| o-Xylene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Styrene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Tetrachloroethene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Toluene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| trans-1,2-Dichloroethene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| trans-1,3-Dichloropropene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| trans-1,4-Dichloro-2-butene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Trichloroethene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Trichlorofluoromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Vinyl acetate | ND | 5,000 | 5,000 | | µg/Kg-dry | 1 | 2/8/2013 |
| Vinyl chloride | ND | 40 | 40 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2-Dichloroethene, Total | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,3-Dichloropropene, Total | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Xylenes, Total | ND | 150 | 150 | | µg/Kg-dry | 1 | 2/8/2013 |
| *Surr: 1,2-Dichloroethane-d4* | *104* | *70-130* | | | *%REC* | 1 | 2/8/2013 |
| *Surr: 4-Bromofluorobenzene* | *92.1* | *70-130* | | | *%REC* | 1 | 2/8/2013 |
| *Surr: Dibromofluoromethane* | *113* | *70-130* | | | *%REC* | 1 | 2/8/2013 |
| *Surr: Toluene-d8* | *93.6* | *70-130* | | | *%REC* | 1 | 2/8/2013 |
| **MOISTURE** | | | **A2540 G** | | | | Analyst: **KF** |
| **Moisture** | **22** | **0.050** | **0** | | **% of sample** | 1 | 2/10/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-9 (12-13') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/5/2013 2:50:00 PM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-02 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **MERCURY BY CVAA** | | | **SW7471** | | Prep Date: **2/13/2013** | | Analyst: **LR** |
| **Mercury** | **4.6** | **1.1** | **0.050** | | **mg/Kg-dry** | 50 | 2/13/2013 |
| **METALS BY ICP-MS** | | | **SW6020A** | | Prep Date: **2/11/2013** | | Analyst: **RH** |
| **Arsenic** | **21** | **0.19** | **0.10** | | **mg/Kg-dry** | 1 | 2/11/2013 |
| **Barium** | **510** | **4.7** | **1.0** | | **mg/Kg-dry** | 10 | 2/12/2013 |
| Boron | ND | 8.0 | 8.0 | | mg/Kg-dry | 1 | 2/11/2013 |
| **Cadmium** | **36** | **0.20** | **0.20** | | **mg/Kg-dry** | 1 | 2/11/2013 |
| **Chromium** | **17** | **2.0** | **2.0** | | **mg/Kg-dry** | 1 | 2/11/2013 |
| **Copper** | **3,600** | **47** | **1.0** | | **mg/Kg-dry** | 100 | 2/12/2013 |
| **Iron** | **82,000** | **76** | **5.0** | | **mg/Kg-dry** | 10 | 2/12/2013 |
| **Lead** | **9,700** | **47** | **1.0** | | **mg/Kg-dry** | 100 | 2/12/2013 |
| **Magnesium** | **720** | **19** | **4.0** | | **mg/Kg-dry** | 1 | 2/11/2013 |
| **Selenium** | **0.95** | **0.20** | **0.20** | | **mg/Kg-dry** | 1 | 2/11/2013 |
| **Silver** | **2.3** | **0.10** | **0.10** | | **mg/Kg-dry** | 1 | 2/11/2013 |
| Thallium | ND | 4.7 | 0.50 | | mg/Kg-dry | 10 | 2/12/2013 |
| **Zinc** | **4,400** | **95** | **1.0** | | **mg/Kg-dry** | 100 | 2/12/2013 |
| **SEMI-VOLATILE ORGANIC COMPOUNDS** | | | **SW8270** | | Prep Date: **2/11/2013** | | Analyst: **RM** |
| 1,1`-Biphenyl | ND | 420 | 0 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4,5-Trichlorophenol | ND | 300 | 300 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4,6-Trichlorophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dichlorophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dimethylphenol | ND | 420 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dinitrophenol | ND | 840 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dinitrotoluene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,6-Dinitrotoluene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Chloronaphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Chlorophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| **2-Methylnaphthalene** | **670** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| 2-Methylphenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Nitroaniline | ND | 840 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Nitrophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 3,3´-Dichlorobenzidine | ND | 17,000 | 2,000 | | µg/Kg-dry | 20 | 2/13/2013 |
| 3-Nitroaniline | ND | 840 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4,6-Dinitro-2-methylphenol | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Bromophenyl phenyl ether | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Chloro-3-methylphenol | ND | 280 | 280 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Chloroaniline | ND | 840 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Chlorophenyl phenyl ether | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Methylphenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

**Client:** ECT, Inc
**Work Order:** 1302268
**Project:** Rock-Tenn Soil 2/5/13 - 2/6/13
**Lab ID:** 1302268-02

**Client Sample ID:** RT-GB-9 (12-13')
**Collection Date:** 2/5/2013 2:50:00 PM
**Matrix:** SOIL

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| 4-Nitroaniline | ND | 840 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Nitrophenol | ND | 840 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| Acenaphthene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Acenaphthylene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Acetophenone | ND | 420 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Anthracene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Atrazine | ND | 420 | 50 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzaldehyde | ND | 420 | 0 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzo(a)anthracene | ND | 770 | 330 | | µg/Kg-dry | 20 | 2/13/2013 |
| Benzo(a)pyrene | ND | 770 | 330 | | µg/Kg-dry | 20 | 2/13/2013 |
| Benzo(b)fluoranthene | ND | 770 | 330 | | µg/Kg-dry | 20 | 2/13/2013 |
| Benzo(g,h,i)perylene | ND | 770 | 330 | | µg/Kg-dry | 20 | 2/13/2013 |
| Benzo(k)fluoranthene | ND | 770 | 330 | | µg/Kg-dry | 20 | 2/13/2013 |
| Bis(2-chloroethoxy)methane | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Bis(2-chloroethyl)ether | ND | 200 | 100 | | µg/Kg-dry | 1 | 2/12/2013 |
| Bis(2-chloroisopropyl)ether | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Bis(2-ethylhexyl)phthalate | ND | 8,400 | 330 | | µg/Kg-dry | 20 | 2/13/2013 |
| Butyl benzyl phthalate | ND | 4,100 | 330 | | µg/Kg-dry | 20 | 2/13/2013 |
| **Caprolactam** | **460** | **420** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| Carbazole | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| **Chrysene** | **820** | **770** | **330** | | **µg/Kg-dry** | 20 | 2/13/2013 |
| Dibenzo(a,h)anthracene | ND | 770 | 330 | | µg/Kg-dry | 20 | 2/13/2013 |
| Dibenzofuran | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Diethyl phthalate | ND | 420 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Dimethyl phthalate | ND | 420 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Di-n-butyl phthalate | ND | 420 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Di-n-octyl phthalate | ND | 4,100 | 330 | | µg/Kg-dry | 20 | 2/13/2013 |
| **Fluoranthene** | **960** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| Fluorene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachlorobenzene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachlorobutadiene | ND | 200 | 50 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachlorocyclopentadiene | ND | 420 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachloroethane | ND | 300 | 300 | | µg/Kg-dry | 1 | 2/12/2013 |
| Indeno(1,2,3-cd)pyrene | ND | 770 | 330 | | µg/Kg-dry | 20 | 2/13/2013 |
| Isophorone | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| **Naphthalene** | **370** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| Nitrobenzene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| N-Nitrosodi-n-propylamine | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| N-Nitrosodiphenylamine | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Pentachlorophenol | ND | 420 | 20 | | µg/Kg-dry | 1 | 2/12/2013 |
| **Phenanthrene** | **1,200** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-9 (12-13') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/5/2013 2:50:00 PM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-02 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Phenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| **Pyrene** | **970** | **770** | **330** | | **µg/Kg-dry** | 20 | 2/13/2013 |
| *Surr: 2,4,6-Tribromophenol* | *92.7* | *34-140* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 2-Fluorobiphenyl* | *77.8* | *12-100* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 2-Fluorophenol* | *85.4* | *33-117* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 4-Terphenyl-d14* | *95.2* | *25-137* | | | *%REC* | 20 | 2/13/2013 |
| *Surr: Nitrobenzene-d5* | *74.8* | *37-107* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: Phenol-d6* | *87.9* | *40-106* | | | *%REC* | 1 | 2/12/2013 |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260** | | Prep Date: **2/8/2013** | | Analyst: **RS** |
| 1,1,1,2-Tetrachloroethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,1,1-Trichloroethane | ND | 66 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,1,2,2-Tetrachloroethane | ND | 66 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,1,2-Trichloroethane | ND | 66 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,1-Dichloroethane | ND | 66 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,1-Dichloroethene | ND | 66 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2,3-Trichloropropane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2,4-Trichlorobenzene | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2,4-Trimethylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2-Dibromo-3-chloropropane | ND | 66 | 10 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2-Dibromoethane | ND | 66 | 20 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2-Dichlorobenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2-Dichloroethane | ND | 66 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2-Dichloropropane | ND | 66 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,3,5-Trimethylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,3-Dichlorobenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,4-Dichlorobenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 2-Butanone | ND | 750 | 750 | | µg/Kg-dry | 1 | 2/8/2013 |
| 2-Hexanone | ND | 2,500 | 2,500 | | µg/Kg-dry | 1 | 2/8/2013 |
| 2-Methylnaphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/8/2013 |
| 4-Methyl-2-pentanone | ND | 2,500 | 2,500 | | µg/Kg-dry | 1 | 2/8/2013 |
| Acetone | ND | 1,000 | 1,000 | | µg/Kg-dry | 1 | 2/8/2013 |
| Acrylonitrile | ND | 220 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Benzene | ND | 66 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Bromochloromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Bromodichloromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Bromomethane | ND | 200 | 200 | | µg/Kg-dry | 1 | 2/8/2013 |
| Carbon disulfide | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| Carbon tetrachloride | ND | 66 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Chlorobenzene | ND | 66 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Chloroethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-9 (12-13') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/5/2013 2:50:00 PM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-02 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Chloroform | ND | 66 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Chloromethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| cis-1,2-Dichloroethene | ND | 66 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| cis-1,3-Dichloropropene | ND | 66 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Dibromochloromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Dibromomethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| Dichlorodifluoromethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| Diethyl ether | ND | 200 | 200 | | µg/Kg-dry | 1 | 2/8/2013 |
| Ethylbenzene | ND | 66 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Hexachloroethane | ND | 300 | 300 | | µg/Kg-dry | 1 | 2/8/2013 |
| Isopropylbenzene | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| m,p-Xylene | ND | 130 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Methyl iodide | ND | 160 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Methyl tert-butyl ether | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| Methylene chloride | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Naphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/8/2013 |
| n-Propylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| o-Xylene | ND | 66 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Styrene | ND | 66 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Tetrachloroethene | ND | 66 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Toluene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| trans-1,2-Dichloroethene | ND | 66 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| trans-1,3-Dichloropropene | ND | 66 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| trans-1,4-Dichloro-2-butene | ND | 66 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Trichloroethene | ND | 66 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Trichlorofluoromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Vinyl acetate | ND | 5,000 | 5,000 | | µg/Kg-dry | 1 | 2/8/2013 |
| Vinyl chloride | ND | 66 | 40 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2-Dichloroethene, Total | ND | 130 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,3-Dichloropropene, Total | ND | 130 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Xylenes, Total | ND | 200 | 150 | | µg/Kg-dry | 1 | 2/8/2013 |
| *Surr: 1,2-Dichloroethane-d4* | *104* | *70-130* | | | *%REC* | 1 | 2/8/2013 |
| *Surr: 4-Bromofluorobenzene* | *94.2* | *70-130* | | | *%REC* | 1 | 2/8/2013 |
| *Surr: Dibromofluoromethane* | *107* | *70-130* | | | *%REC* | 1 | 2/8/2013 |
| *Surr: Toluene-d8* | *92.6* | *70-130* | | | *%REC* | 1 | 2/8/2013 |
| **MOISTURE** | | | **A2540 G** | | | | Analyst: **KF** |
| **Moisture** | **22** | **0.050** | **0** | | **% of sample** | 1 | 2/10/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-10 (7-8') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 9:00:00 AM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-03 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **SEMI-VOLATILE ORGANIC COMPOUNDS** | | | **SW8270** | | Prep Date: **2/11/2013** | | Analyst: **RM** |
| 2-Chloronaphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Methylnaphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Acenaphthene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Acenaphthylene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Anthracene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzo(a)anthracene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzo(a)pyrene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzo(b)fluoranthene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzo(g,h,i)perylene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzo(k)fluoranthene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Chrysene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Dibenzo(a,h)anthracene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Fluoranthene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Fluorene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Indeno(1,2,3-cd)pyrene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Naphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Phenanthrene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Pyrene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| *Surr: 2-Fluorobiphenyl* | *69.4* | *12-100* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 4-Terphenyl-d14* | *109* | *25-137* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: Nitrobenzene-d5* | *68.1* | *37-107* | | | *%REC* | 1 | 2/12/2013 |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260** | | Prep Date: **2/8/2013** | | Analyst: **RS** |
| 1,2,4-Trimethylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,3,5-Trimethylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Benzene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Ethylbenzene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| m,p-Xylene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| o-Xylene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Toluene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Xylenes, Total | ND | 150 | 150 | | µg/Kg-dry | 1 | 2/8/2013 |
| *Surr: 1,2-Dichloroethane-d4* | *106* | *70-130* | | | *%REC* | 1 | 2/8/2013 |
| *Surr: 4-Bromofluorobenzene* | *92.8* | *70-130* | | | *%REC* | 1 | 2/8/2013 |
| *Surr: Dibromofluoromethane* | *117* | *70-130* | | | *%REC* | 1 | 2/8/2013 |
| *Surr: Toluene-d8* | *93.6* | *70-130* | | | *%REC* | 1 | 2/8/2013 |
| **MOISTURE** | | | **A2540 G** | | | | Analyst: **KF** |
| **Moisture** | **20** | **0.050** | **0** | | **% of sample** | 1 | 2/10/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-11 (4-5') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 9:20:00 AM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-04 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **SEMI-VOLATILE ORGANIC COMPOUNDS** | | | **SW8270** | | Prep Date: **2/11/2013** | | Analyst: **RM** |
| 2-Chloronaphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Methylnaphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Acenaphthene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Acenaphthylene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Anthracene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzo(a)anthracene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzo(a)pyrene | ND | 340 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Benzo(b)fluoranthene | ND | 340 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Benzo(g,h,i)perylene | ND | 340 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Benzo(k)fluoranthene | ND | 340 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Chrysene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Dibenzo(a,h)anthracene | ND | 340 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Fluoranthene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Fluorene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Indeno(1,2,3-cd)pyrene | ND | 340 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Naphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Phenanthrene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Pyrene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| *Surr: 2-Fluorobiphenyl* | *68.4* | *12-100* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 4-Terphenyl-d14* | *119* | *25-137* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: Nitrobenzene-d5* | *70.5* | *37-107* | | | *%REC* | 1 | 2/12/2013 |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260** | | Prep Date: **2/8/2013** | | Analyst: **AK** |
| 1,2,4-Trimethylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,3,5-Trimethylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Benzene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Ethylbenzene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| m,p-Xylene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| o-Xylene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Toluene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Xylenes, Total | ND | 150 | 150 | | µg/Kg-dry | 1 | 2/8/2013 |
| *Surr: 1,2-Dichloroethane-d4* | *88.2* | *70-130* | | | *%REC* | 1 | 2/8/2013 |
| *Surr: 4-Bromofluorobenzene* | *105* | *70-130* | | | *%REC* | 1 | 2/8/2013 |
| *Surr: Dibromofluoromethane* | *86.0* | *70-130* | | | *%REC* | 1 | 2/8/2013 |
| *Surr: Toluene-d8* | *87.6* | *70-130* | | | *%REC* | 1 | 2/8/2013 |
| **MOISTURE** | | | **A2540 G** | | | | Analyst: **KF** |
| **Moisture** | **14** | **0.050** | **0** | | **% of sample** | 1 | 2/10/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-12 (3-5') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 9:55:00 AM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-05 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **SEMI-VOLATILE ORGANIC COMPOUNDS** | | | **SW8270** | | Prep Date: **2/11/2013** | | Analyst: **RM** |
| 1,1`-Biphenyl | ND | 340 | 0 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4,5-Trichlorophenol | ND | 300 | 300 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4,6-Trichlorophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dichlorophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dimethylphenol | ND | 340 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dinitrophenol | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dinitrotoluene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,6-Dinitrotoluene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Chloronaphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Chlorophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Methylnaphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Methylphenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Nitroaniline | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Nitrophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 3,3´-Dichlorobenzidine | ND | 2,000 | 2,000 | | µg/Kg-dry | 1 | 2/12/2013 |
| 3-Nitroaniline | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4,6-Dinitro-2-methylphenol | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Bromophenyl phenyl ether | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Chloro-3-methylphenol | ND | 280 | 280 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Chloroaniline | ND | 680 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Chlorophenyl phenyl ether | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Methylphenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Nitroaniline | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Nitrophenol | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| Acenaphthene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Acenaphthylene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Acetophenone | ND | 340 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Anthracene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Atrazine | ND | 340 | 50 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzaldehyde | ND | 340 | 0 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzo(a)anthracene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzo(a)pyrene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzo(b)fluoranthene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzo(g,h,i)perylene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzo(k)fluoranthene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Bis(2-chloroethoxy)methane | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Bis(2-chloroethyl)ether | ND | 160 | 100 | | µg/Kg-dry | 1 | 2/12/2013 |
| Bis(2-chloroisopropyl)ether | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Bis(2-ethylhexyl)phthalate | ND | 340 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-12 (3-5') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 9:55:00 AM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-05 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Butyl benzyl phthalate | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Caprolactam | ND | 340 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Carbazole | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Chrysene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Dibenzo(a,h)anthracene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Dibenzofuran | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Diethyl phthalate | ND | 340 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Dimethyl phthalate | ND | 340 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Di-n-butyl phthalate | ND | 340 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Di-n-octyl phthalate | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Fluoranthene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Fluorene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachlorobenzene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachlorobutadiene | ND | 160 | 50 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachlorocyclopentadiene | ND | 340 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachloroethane | ND | 300 | 300 | | µg/Kg-dry | 1 | 2/12/2013 |
| Indeno(1,2,3-cd)pyrene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Isophorone | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Naphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Nitrobenzene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| N-Nitrosodi-n-propylamine | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| N-Nitrosodiphenylamine | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Pentachlorophenol | ND | 340 | 20 | | µg/Kg-dry | 1 | 2/12/2013 |
| Phenanthrene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Phenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Pyrene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| *Surr: 2,4,6-Tribromophenol* | *75.4* | *34-140* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 2-Fluorobiphenyl* | *76.0* | *12-100* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 2-Fluorophenol* | *84.1* | *33-117* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 4-Terphenyl-d14* | *123* | *25-137* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: Nitrobenzene-d5* | *78.6* | *37-107* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: Phenol-d6* | *87.8* | *40-106* | | | *%REC* | 1 | 2/12/2013 |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260** | | Prep Date: **2/8/2013** | | Analyst: **AK** |
| 1,1,1,2-Tetrachloroethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,1,1-Trichloroethane | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,1,2,2-Tetrachloroethane | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,1,2-Trichloroethane | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,1-Dichloroethane | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,1-Dichloroethene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2,3-Trichloropropane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-12 (3-5') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 9:55:00 AM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-05 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2,4-Trimethylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2-Dibromo-3-chloropropane | ND | 32 | 10 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2-Dibromoethane | ND | 32 | 20 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2-Dichlorobenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2-Dichloroethane | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2-Dichloropropane | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,3,5-Trimethylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,3-Dichlorobenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,4-Dichlorobenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 2-Butanone | ND | 750 | 750 | | µg/Kg-dry | 1 | 2/8/2013 |
| 2-Hexanone | ND | 2,500 | 2,500 | | µg/Kg-dry | 1 | 2/8/2013 |
| 2-Methylnaphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/8/2013 |
| 4-Methyl-2-pentanone | ND | 2,500 | 2,500 | | µg/Kg-dry | 1 | 2/8/2013 |
| Acetone | ND | 1,000 | 1,000 | | µg/Kg-dry | 1 | 2/8/2013 |
| Acrylonitrile | ND | 110 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Benzene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Bromochloromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Bromodichloromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Bromomethane | ND | 200 | 200 | | µg/Kg-dry | 1 | 2/8/2013 |
| Carbon disulfide | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| Carbon tetrachloride | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Chlorobenzene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Chloroethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| Chloroform | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Chloromethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| cis-1,2-Dichloroethene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| cis-1,3-Dichloropropene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Dibromochloromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Dibromomethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| Dichlorodifluoromethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| Diethyl ether | ND | 200 | 200 | | µg/Kg-dry | 1 | 2/8/2013 |
| Ethylbenzene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Hexachloroethane | ND | 300 | 300 | | µg/Kg-dry | 1 | 2/8/2013 |
| Isopropylbenzene | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| m,p-Xylene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Methyl iodide | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Methyl tert-butyl ether | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| Methylene chloride | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Naphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/8/2013 |
| n-Propylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-12 (3-5') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 9:55:00 AM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-05 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| o-Xylene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Styrene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Tetrachloroethene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Toluene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| trans-1,2-Dichloroethene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| trans-1,3-Dichloropropene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| trans-1,4-Dichloro-2-butene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Trichloroethene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Trichlorofluoromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Vinyl acetate | ND | 5,000 | 5,000 | | µg/Kg-dry | 1 | 2/8/2013 |
| Vinyl chloride | ND | 40 | 40 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2-Dichloroethene, Total | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,3-Dichloropropene, Total | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Xylenes, Total | ND | 150 | 150 | | µg/Kg-dry | 1 | 2/8/2013 |
| *Surr: 1,2-Dichloroethane-d4* | *91.7* | *70-130* | | | *%REC* | 1 | 2/8/2013 |
| *Surr: 4-Bromofluorobenzene* | *107* | *70-130* | | | *%REC* | 1 | 2/8/2013 |
| *Surr: Dibromofluoromethane* | *87.6* | *70-130* | | | *%REC* | 1 | 2/8/2013 |
| *Surr: Toluene-d8* | *90.2* | *70-130* | | | *%REC* | 1 | 2/8/2013 |
| **MOISTURE** | | | **A2540 G** | | | | Analyst: **KF** |
| **Moisture** | **3.3** | **0.050** | **0** | | **% of sample** | 1 | 2/10/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-13 (3-5') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 10:15:00 AM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-06 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **SEMI-VOLATILE ORGANIC COMPOUNDS** | | | **SW8270** | | Prep Date: **2/11/2013** | | Analyst: **RM** |
| 1,1`-Biphenyl | ND | 350 | 0 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4,5-Trichlorophenol | ND | 300 | 300 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4,6-Trichlorophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dichlorophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dimethylphenol | ND | 350 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dinitrophenol | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dinitrotoluene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,6-Dinitrotoluene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Chloronaphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Chlorophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Methylnaphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Methylphenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Nitroaniline | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Nitrophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 3,3´-Dichlorobenzidine | ND | 2,000 | 2,000 | | µg/Kg-dry | 1 | 2/12/2013 |
| 3-Nitroaniline | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4,6-Dinitro-2-methylphenol | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Bromophenyl phenyl ether | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Chloro-3-methylphenol | ND | 280 | 280 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Chloroaniline | ND | 700 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Chlorophenyl phenyl ether | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Methylphenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Nitroaniline | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Nitrophenol | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| Acenaphthene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Acenaphthylene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Acetophenone | ND | 350 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Anthracene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Atrazine | ND | 350 | 50 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzaldehyde | ND | 350 | 0 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzo(a)anthracene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzo(a)pyrene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzo(b)fluoranthene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzo(g,h,i)perylene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzo(k)fluoranthene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Bis(2-chloroethoxy)methane | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Bis(2-chloroethyl)ether | ND | 170 | 100 | | µg/Kg-dry | 1 | 2/12/2013 |
| Bis(2-chloroisopropyl)ether | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Bis(2-ethylhexyl)phthalate | ND | 350 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

**Client:** ECT, Inc
**Work Order:** 1302268
**Project:** Rock-Tenn Soil 2/5/13 - 2/6/13
**Lab ID:** 1302268-06

**Client Sample ID:** RT-GB-13 (3-5')
**Collection Date:** 2/6/2013 10:15:00 AM
**Matrix:** SOIL

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Butyl benzyl phthalate | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Caprolactam | ND | 350 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Carbazole | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Chrysene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Dibenzo(a,h)anthracene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Dibenzofuran | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Diethyl phthalate | ND | 350 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Dimethyl phthalate | ND | 350 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Di-n-butyl phthalate | ND | 350 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Di-n-octyl phthalate | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Fluoranthene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Fluorene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachlorobenzene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachlorobutadiene | ND | 170 | 50 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachlorocyclopentadiene | ND | 350 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachloroethane | ND | 300 | 300 | | µg/Kg-dry | 1 | 2/12/2013 |
| Indeno(1,2,3-cd)pyrene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Isophorone | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Naphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Nitrobenzene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| N-Nitrosodi-n-propylamine | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| N-Nitrosodiphenylamine | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Pentachlorophenol | ND | 350 | 20 | | µg/Kg-dry | 1 | 2/12/2013 |
| Phenanthrene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Phenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Pyrene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| *Surr: 2,4,6-Tribromophenol* | *78.0* | *34-140* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 2-Fluorobiphenyl* | *76.9* | *12-100* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 2-Fluorophenol* | *86.3* | *33-117* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 4-Terphenyl-d14* | *118* | *25-137* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: Nitrobenzene-d5* | *79.2* | *37-107* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: Phenol-d6* | *89.4* | *40-106* | | | *%REC* | 1 | 2/12/2013 |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260** | | Prep Date: **2/8/2013** | | Analyst: **AK** |
| 1,1,1,2-Tetrachloroethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,1,1-Trichloroethane | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,1,2,2-Tetrachloroethane | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,1,2-Trichloroethane | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,1-Dichloroethane | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,1-Dichloroethene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2,3-Trichloropropane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

**Client:** ECT, Inc
**Work Order:** 1302268
**Project:** Rock-Tenn Soil 2/5/13 - 2/6/13
**Lab ID:** 1302268-06

**Client Sample ID:** RT-GB-13 (3-5')
**Collection Date:** 2/6/2013 10:15:00 AM
**Matrix:** SOIL

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2,4-Trimethylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2-Dibromo-3-chloropropane | ND | 32 | 10 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2-Dibromoethane | ND | 32 | 20 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2-Dichlorobenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2-Dichloroethane | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2-Dichloropropane | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,3,5-Trimethylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,3-Dichlorobenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,4-Dichlorobenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 2-Butanone | ND | 750 | 750 | | µg/Kg-dry | 1 | 2/8/2013 |
| 2-Hexanone | ND | 2,500 | 2,500 | | µg/Kg-dry | 1 | 2/8/2013 |
| 2-Methylnaphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/8/2013 |
| 4-Methyl-2-pentanone | ND | 2,500 | 2,500 | | µg/Kg-dry | 1 | 2/8/2013 |
| Acetone | ND | 1,000 | 1,000 | | µg/Kg-dry | 1 | 2/8/2013 |
| Acrylonitrile | ND | 110 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Benzene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Bromochloromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Bromodichloromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Bromomethane | ND | 200 | 200 | | µg/Kg-dry | 1 | 2/8/2013 |
| Carbon disulfide | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| Carbon tetrachloride | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Chlorobenzene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Chloroethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| Chloroform | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Chloromethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| cis-1,2-Dichloroethene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| cis-1,3-Dichloropropene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Dibromochloromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Dibromomethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| Dichlorodifluoromethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| Diethyl ether | ND | 200 | 200 | | µg/Kg-dry | 1 | 2/8/2013 |
| Ethylbenzene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Hexachloroethane | ND | 300 | 300 | | µg/Kg-dry | 1 | 2/8/2013 |
| Isopropylbenzene | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| m,p-Xylene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Methyl iodide | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Methyl tert-butyl ether | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| Methylene chloride | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Naphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/8/2013 |
| n-Propylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-13 (3-5') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 10:15:00 AM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-06 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| o-Xylene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Styrene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Tetrachloroethene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Toluene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| trans-1,2-Dichloroethene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| trans-1,3-Dichloropropene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| trans-1,4-Dichloro-2-butene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Trichloroethene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Trichlorofluoromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Vinyl acetate | ND | 5,000 | 5,000 | | µg/Kg-dry | 1 | 2/8/2013 |
| Vinyl chloride | ND | 40 | 40 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2-Dichloroethene, Total | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,3-Dichloropropene, Total | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Xylenes, Total | ND | 150 | 150 | | µg/Kg-dry | 1 | 2/8/2013 |
| *Surr: 1,2-Dichloroethane-d4* | *85.6* | *70-130* | | | *%REC* | 1 | 2/8/2013 |
| *Surr: 4-Bromofluorobenzene* | *104* | *70-130* | | | *%REC* | 1 | 2/8/2013 |
| *Surr: Dibromofluoromethane* | *84.6* | *70-130* | | | *%REC* | 1 | 2/8/2013 |
| *Surr: Toluene-d8* | *88.0* | *70-130* | | | *%REC* | 1 | 2/8/2013 |
| **MOISTURE** | | | **A2540 G** | | | | Analyst: **KF** |
| **Moisture** | **5.6** | **0.050** | **0** | | **% of sample** | 1 | 2/10/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-14 (1-2') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 10:25:00 AM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-07 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **SEMI-VOLATILE ORGANIC COMPOUNDS** | | | **SW8270** | | Prep Date: **2/11/2013** | | Analyst: **RM** |
| 1,1`-Biphenyl | ND | 350 | 0 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4,5-Trichlorophenol | ND | 300 | 300 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4,6-Trichlorophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dichlorophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dimethylphenol | ND | 350 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dinitrophenol | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dinitrotoluene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,6-Dinitrotoluene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Chloronaphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Chlorophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Methylnaphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Methylphenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Nitroaniline | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Nitrophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 3,3´-Dichlorobenzidine | ND | 2,000 | 2,000 | | µg/Kg-dry | 1 | 2/12/2013 |
| 3-Nitroaniline | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4,6-Dinitro-2-methylphenol | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Bromophenyl phenyl ether | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Chloro-3-methylphenol | ND | 280 | 280 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Chloroaniline | ND | 710 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Chlorophenyl phenyl ether | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Methylphenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Nitroaniline | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Nitrophenol | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| Acenaphthene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Acenaphthylene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Acetophenone | ND | 350 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Anthracene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Atrazine | ND | 350 | 50 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzaldehyde | ND | 350 | 0 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzo(a)anthracene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzo(a)pyrene | ND | 330 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Benzo(b)fluoranthene | ND | 330 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Benzo(g,h,i)perylene | ND | 330 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Benzo(k)fluoranthene | ND | 330 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Bis(2-chloroethoxy)methane | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Bis(2-chloroethyl)ether | ND | 170 | 100 | | µg/Kg-dry | 1 | 2/12/2013 |
| Bis(2-chloroisopropyl)ether | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Bis(2-ethylhexyl)phthalate | ND | 350 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-14 (1-2') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 10:25:00 AM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-07 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Butyl benzyl phthalate | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Caprolactam | ND | 350 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Carbazole | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Chrysene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Dibenzo(a,h)anthracene | ND | 330 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Dibenzofuran | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Diethyl phthalate | ND | 350 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Dimethyl phthalate | ND | 350 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Di-n-butyl phthalate | ND | 350 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Di-n-octyl phthalate | ND | 1,700 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Fluoranthene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Fluorene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachlorobenzene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachlorobutadiene | ND | 170 | 50 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachlorocyclopentadiene | ND | 350 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachloroethane | ND | 300 | 300 | | µg/Kg-dry | 1 | 2/12/2013 |
| Indeno(1,2,3-cd)pyrene | ND | 330 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Isophorone | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Naphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Nitrobenzene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| N-Nitrosodi-n-propylamine | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| N-Nitrosodiphenylamine | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Pentachlorophenol | ND | 350 | 20 | | µg/Kg-dry | 1 | 2/12/2013 |
| Phenanthrene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Phenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Pyrene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| *Surr: 2,4,6-Tribromophenol* | *87.6* | *34-140* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 2-Fluorobiphenyl* | *71.7* | *12-100* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 2-Fluorophenol* | *73.4* | *33-117* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 4-Terphenyl-d14* | *130* | *25-137* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: Nitrobenzene-d5* | *66.2* | *37-107* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: Phenol-d6* | *79.5* | *40-106* | | | *%REC* | 1 | 2/12/2013 |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260** | | Prep Date: **2/8/2013** | | Analyst: **AK** |
| 1,1,1,2-Tetrachloroethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,1,1-Trichloroethane | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,1,2,2-Tetrachloroethane | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,1,2-Trichloroethane | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,1-Dichloroethane | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,1-Dichloroethene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2,3-Trichloropropane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

**Client:** ECT, Inc
**Work Order:** 1302268
**Project:** Rock-Tenn Soil 2/5/13 - 2/6/13
**Lab ID:** 1302268-07

**Client Sample ID:** RT-GB-14 (1-2')
**Collection Date:** 2/6/2013 10:25:00 AM
**Matrix:** SOIL

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2,4-Trimethylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2-Dibromo-3-chloropropane | ND | 33 | 10 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2-Dibromoethane | ND | 33 | 20 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2-Dichlorobenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2-Dichloroethane | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2-Dichloropropane | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,3,5-Trimethylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,3-Dichlorobenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,4-Dichlorobenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 2-Butanone | ND | 750 | 750 | | µg/Kg-dry | 1 | 2/8/2013 |
| 2-Hexanone | ND | 2,500 | 2,500 | | µg/Kg-dry | 1 | 2/8/2013 |
| 2-Methylnaphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/8/2013 |
| 4-Methyl-2-pentanone | ND | 2,500 | 2,500 | | µg/Kg-dry | 1 | 2/8/2013 |
| Acetone | ND | 1,000 | 1,000 | | µg/Kg-dry | 1 | 2/8/2013 |
| Acrylonitrile | ND | 110 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Benzene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Bromochloromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Bromodichloromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Bromomethane | ND | 200 | 200 | | µg/Kg-dry | 1 | 2/8/2013 |
| Carbon disulfide | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| Carbon tetrachloride | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Chlorobenzene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Chloroethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| Chloroform | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Chloromethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| cis-1,2-Dichloroethene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| cis-1,3-Dichloropropene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Dibromochloromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Dibromomethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| Dichlorodifluoromethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| Diethyl ether | ND | 200 | 200 | | µg/Kg-dry | 1 | 2/8/2013 |
| Ethylbenzene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Hexachloroethane | ND | 300 | 300 | | µg/Kg-dry | 1 | 2/8/2013 |
| Isopropylbenzene | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| m,p-Xylene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Methyl iodide | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Methyl tert-butyl ether | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| Methylene chloride | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Naphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/8/2013 |
| n-Propylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-14 (1-2') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 10:25:00 AM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-07 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| o-Xylene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Styrene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Tetrachloroethene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Toluene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| trans-1,2-Dichloroethene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| trans-1,3-Dichloropropene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| trans-1,4-Dichloro-2-butene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Trichloroethene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Trichlorofluoromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Vinyl acetate | ND | 5,000 | 5,000 | | µg/Kg-dry | 1 | 2/8/2013 |
| Vinyl chloride | ND | 40 | 40 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2-Dichloroethene, Total | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,3-Dichloropropene, Total | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Xylenes, Total | ND | 150 | 150 | | µg/Kg-dry | 1 | 2/8/2013 |
| *Surr: 1,2-Dichloroethane-d4* | *86.9* | *70-130* | | | *%REC* | 1 | 2/8/2013 |
| *Surr: 4-Bromofluorobenzene* | *105* | *70-130* | | | *%REC* | 1 | 2/8/2013 |
| *Surr: Dibromofluoromethane* | *86.7* | *70-130* | | | *%REC* | 1 | 2/8/2013 |
| *Surr: Toluene-d8* | *88.0* | *70-130* | | | *%REC* | 1 | 2/8/2013 |
| **MOISTURE** | | | **A2540 G** | | | | Analyst: **KF** |
| **Moisture** | **8.4** | **0.050** | **0** | | **% of sample** | 1 | 2/10/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-15 (0.5-1') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 10:45:00 AM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-08 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **MERCURY BY CVAA** | | | **SW7471** | | Prep Date: **2/13/2013** | | Analyst: **LR** |
| **Mercury** | **4.6** | **0.98** | **0.050** | | **mg/Kg-dry** | 50 | 2/13/2013 |
| **METALS BY ICP-MS** | | | **SW6020A** | | Prep Date: **2/11/2013** | | Analyst: **RH** |
| **Arsenic** | **27** | **0.22** | **0.10** | | **mg/Kg-dry** | 1 | 2/11/2013 |
| **Barium** | **400** | **5.4** | **1.0** | | **mg/Kg-dry** | 10 | 2/12/2013 |
| **Cadmium** | **14** | **0.22** | **0.20** | | **mg/Kg-dry** | 1 | 2/11/2013 |
| **Chromium** | **22** | **2.0** | **2.0** | | **mg/Kg-dry** | 1 | 2/11/2013 |
| **Copper** | **910** | **5.4** | **1.0** | | **mg/Kg-dry** | 10 | 2/12/2013 |
| **Lead** | **1,500** | **5.4** | **1.0** | | **mg/Kg-dry** | 10 | 2/12/2013 |
| **Selenium** | **5.6** | **0.22** | **0.20** | | **mg/Kg-dry** | 1 | 2/11/2013 |
| **Silver** | **2.2** | **0.11** | **0.10** | | **mg/Kg-dry** | 1 | 2/11/2013 |
| **Zinc** | **1,300** | **11** | **1.0** | | **mg/Kg-dry** | 10 | 2/12/2013 |
| **SEMI-VOLATILE ORGANIC COMPOUNDS** | | | **SW8270** | | Prep Date: **2/11/2013** | | Analyst: **RM** |
| 1,1`-Biphenyl | ND | 370 | 0 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4,5-Trichlorophenol | ND | 300 | 300 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4,6-Trichlorophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dichlorophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dimethylphenol | ND | 370 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dinitrophenol | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dinitrotoluene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,6-Dinitrotoluene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Chloronaphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Chlorophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Methylnaphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Methylphenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Nitroaniline | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Nitrophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 3,3´-Dichlorobenzidine | ND | 2,000 | 2,000 | | µg/Kg-dry | 1 | 2/12/2013 |
| 3-Nitroaniline | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4,6-Dinitro-2-methylphenol | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Bromophenyl phenyl ether | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Chloro-3-methylphenol | ND | 280 | 280 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Chloroaniline | ND | 740 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Chlorophenyl phenyl ether | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Methylphenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Nitroaniline | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Nitrophenol | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| Acenaphthene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Acenaphthylene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-15 (0.5-1') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 10:45:00 AM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-08 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Acetophenone | ND | 370 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Anthracene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Atrazine | ND | 370 | 50 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzaldehyde | ND | 370 | 0 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzo(a)anthracene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzo(a)pyrene | ND | 340 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Benzo(b)fluoranthene | ND | 340 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Benzo(g,h,i)perylene | ND | 340 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Benzo(k)fluoranthene | ND | 340 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Bis(2-chloroethoxy)methane | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Bis(2-chloroethyl)ether | ND | 180 | 100 | | µg/Kg-dry | 1 | 2/12/2013 |
| Bis(2-chloroisopropyl)ether | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Bis(2-ethylhexyl)phthalate | ND | 370 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Butyl benzyl phthalate | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Caprolactam | ND | 370 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Carbazole | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Chrysene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Dibenzo(a,h)anthracene | ND | 340 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Dibenzofuran | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Diethyl phthalate | ND | 370 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Dimethyl phthalate | ND | 370 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Di-n-butyl phthalate | ND | 370 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Di-n-octyl phthalate | ND | 1,800 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Fluoranthene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Fluorene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachlorobenzene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachlorobutadiene | ND | 180 | 50 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachlorocyclopentadiene | ND | 370 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachloroethane | ND | 300 | 300 | | µg/Kg-dry | 1 | 2/12/2013 |
| Indeno(1,2,3-cd)pyrene | ND | 340 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Isophorone | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Naphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Nitrobenzene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| N-Nitrosodi-n-propylamine | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| N-Nitrosodiphenylamine | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Pentachlorophenol | ND | 370 | 20 | | µg/Kg-dry | 1 | 2/12/2013 |
| Phenanthrene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Phenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| **Pyrene** | **390** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| *Surr: 2,4,6-Tribromophenol* | *86.6* | *34-140* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 2-Fluorobiphenyl* | *76.8* | *12-100* | | | *%REC* | 1 | 2/12/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-15 (0.5-1') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 10:45:00 AM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-08 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| *Surr: 2-Fluorophenol* | *82.4* | *33-117* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 4-Terphenyl-d14* | *89.4* | *25-137* | | | *%REC* | 10 | 2/13/2013 |
| *Surr: Nitrobenzene-d5* | *75.8* | *37-107* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: Phenol-d6* | *87.6* | *40-106* | | | *%REC* | 1 | 2/12/2013 |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260** | | Prep Date: **2/8/2013** | | Analyst: **AK** |
| 1,1,1,2-Tetrachloroethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,1,1-Trichloroethane | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,1,2,2-Tetrachloroethane | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,1,2-Trichloroethane | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,1-Dichloroethane | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,1-Dichloroethene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2,3-Trichloropropane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2,4-Trichlorobenzene | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2,4-Trimethylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2-Dibromo-3-chloropropane | ND | 34 | 10 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2-Dibromoethane | ND | 34 | 20 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2-Dichlorobenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2-Dichloroethane | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2-Dichloropropane | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,3,5-Trimethylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,3-Dichlorobenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,4-Dichlorobenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 2-Butanone | ND | 750 | 750 | | µg/Kg-dry | 1 | 2/8/2013 |
| 2-Hexanone | ND | 2,500 | 2,500 | | µg/Kg-dry | 1 | 2/8/2013 |
| 2-Methylnaphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/8/2013 |
| 4-Methyl-2-pentanone | ND | 2,500 | 2,500 | | µg/Kg-dry | 1 | 2/8/2013 |
| Acetone | ND | 1,000 | 1,000 | | µg/Kg-dry | 1 | 2/8/2013 |
| Acrylonitrile | ND | 110 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Benzene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Bromochloromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Bromodichloromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Bromomethane | ND | 200 | 200 | | µg/Kg-dry | 1 | 2/8/2013 |
| Carbon disulfide | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| Carbon tetrachloride | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Chlorobenzene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Chloroethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| Chloroform | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Chloromethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| cis-1,2-Dichloroethene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| cis-1,3-Dichloropropene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-15 (0.5-1') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 10:45:00 AM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-08 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Dibromochloromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Dibromomethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| Dichlorodifluoromethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| Diethyl ether | ND | 200 | 200 | | µg/Kg-dry | 1 | 2/8/2013 |
| Ethylbenzene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Hexachloroethane | ND | 300 | 300 | | µg/Kg-dry | 1 | 2/8/2013 |
| Isopropylbenzene | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| m,p-Xylene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Methyl iodide | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Methyl tert-butyl ether | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| Methylene chloride | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Naphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/8/2013 |
| n-Propylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| o-Xylene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Styrene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Tetrachloroethene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Toluene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| trans-1,2-Dichloroethene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| trans-1,3-Dichloropropene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| trans-1,4-Dichloro-2-butene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Trichloroethene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Trichlorofluoromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Vinyl acetate | ND | 5,000 | 5,000 | | µg/Kg-dry | 1 | 2/8/2013 |
| Vinyl chloride | ND | 40 | 40 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2-Dichloroethene, Total | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,3-Dichloropropene, Total | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Xylenes, Total | ND | 150 | 150 | | µg/Kg-dry | 1 | 2/8/2013 |
| *Surr: 1,2-Dichloroethane-d4* | *87.7* | *70-130* | | | *%REC* | 1 | 2/8/2013 |
| *Surr: 4-Bromofluorobenzene* | *105* | *70-130* | | | *%REC* | 1 | 2/8/2013 |
| *Surr: Dibromofluoromethane* | *87.0* | *70-130* | | | *%REC* | 1 | 2/8/2013 |
| *Surr: Toluene-d8* | *88.1* | *70-130* | | | *%REC* | 1 | 2/8/2013 |
| **MOISTURE** | | | **A2540 G** | | | | Analyst: **KF** |
| **Moisture** | **12** | **0.050** | **0** | | **% of sample** | 1 | 2/10/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-15 (0.5-1') DUP |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 10:45:00 AM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-09 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **MERCURY BY CVAA** | | | **SW7471** | | Prep Date: **2/13/2013** | | Analyst: **LR** |
| **Mercury** | **6.7** | **0.90** | **0.050** | | **mg/Kg-dry** | 50 | 2/13/2013 |
| **METALS BY ICP-MS** | | | **SW6020A** | | Prep Date: **2/11/2013** | | Analyst: **RH** |
| **Arsenic** | **37** | **0.19** | **0.10** | | **mg/Kg-dry** | 1 | 2/11/2013 |
| **Barium** | **260** | **4.6** | **1.0** | | **mg/Kg-dry** | 10 | 2/12/2013 |
| **Cadmium** | **9.0** | **0.20** | **0.20** | | **mg/Kg-dry** | 1 | 2/11/2013 |
| **Chromium** | **28** | **2.0** | **2.0** | | **mg/Kg-dry** | 1 | 2/11/2013 |
| **Copper** | **660** | **4.6** | **1.0** | | **mg/Kg-dry** | 10 | 2/12/2013 |
| **Lead** | **1,100** | **4.6** | **1.0** | | **mg/Kg-dry** | 10 | 2/12/2013 |
| **Selenium** | **2.3** | **0.20** | **0.20** | | **mg/Kg-dry** | 1 | 2/11/2013 |
| **Silver** | **1.3** | **0.10** | **0.10** | | **mg/Kg-dry** | 1 | 2/11/2013 |
| **Zinc** | **730** | **9.3** | **1.0** | | **mg/Kg-dry** | 10 | 2/12/2013 |
| **SEMI-VOLATILE ORGANIC COMPOUNDS** | | | **SW8270** | | Prep Date: **2/11/2013** | | Analyst: **RM** |
| 1,1`-Biphenyl | ND | 360 | 0 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4,5-Trichlorophenol | ND | 300 | 300 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4,6-Trichlorophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dichlorophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dimethylphenol | ND | 360 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dinitrophenol | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dinitrotoluene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,6-Dinitrotoluene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Chloronaphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Chlorophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Methylnaphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Methylphenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Nitroaniline | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Nitrophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 3,3´-Dichlorobenzidine | ND | 2,000 | 2,000 | | µg/Kg-dry | 1 | 2/12/2013 |
| 3-Nitroaniline | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4,6-Dinitro-2-methylphenol | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Bromophenyl phenyl ether | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Chloro-3-methylphenol | ND | 280 | 280 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Chloroaniline | ND | 730 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Chlorophenyl phenyl ether | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Methylphenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Nitroaniline | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Nitrophenol | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| Acenaphthene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Acenaphthylene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-15 (0.5-1') DUP |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 10:45:00 AM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-09 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Acetophenone | ND | 360 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Anthracene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Atrazine | ND | 360 | 50 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzaldehyde | ND | 360 | 0 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzo(a)anthracene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzo(a)pyrene | ND | 330 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Benzo(b)fluoranthene | ND | 330 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Benzo(g,h,i)perylene | ND | 330 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Benzo(k)fluoranthene | ND | 330 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Bis(2-chloroethoxy)methane | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Bis(2-chloroethyl)ether | ND | 180 | 100 | | µg/Kg-dry | 1 | 2/12/2013 |
| Bis(2-chloroisopropyl)ether | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Bis(2-ethylhexyl)phthalate | ND | 360 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Butyl benzyl phthalate | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Caprolactam | ND | 360 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Carbazole | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Chrysene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Dibenzo(a,h)anthracene | ND | 330 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Dibenzofuran | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Diethyl phthalate | ND | 360 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Dimethyl phthalate | ND | 360 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Di-n-butyl phthalate | ND | 360 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Di-n-octyl phthalate | ND | 1,800 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| **Fluoranthene** | **480** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| Fluorene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachlorobenzene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachlorobutadiene | ND | 180 | 50 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachlorocyclopentadiene | ND | 360 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachloroethane | ND | 300 | 300 | | µg/Kg-dry | 1 | 2/12/2013 |
| Indeno(1,2,3-cd)pyrene | ND | 330 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Isophorone | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Naphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Nitrobenzene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| N-Nitrosodi-n-propylamine | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| N-Nitrosodiphenylamine | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Pentachlorophenol | ND | 360 | 20 | | µg/Kg-dry | 1 | 2/12/2013 |
| **Phenanthrene** | **340** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| Phenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| **Pyrene** | **590** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| *Surr: 2,4,6-Tribromophenol* | *90.3* | *34-140* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 2-Fluorobiphenyl* | *69.1* | *12-100* | | | *%REC* | 1 | 2/12/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-15 (0.5-1') DUP |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 10:45:00 AM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-09 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| *Surr: 2-Fluorophenol* | *71.3* | *33-117* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 4-Terphenyl-d14* | *96.6* | *25-137* | | | *%REC* | 10 | 2/13/2013 |
| *Surr: Nitrobenzene-d5* | *65.0* | *37-107* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: Phenol-d6* | *77.7* | *40-106* | | | *%REC* | 1 | 2/12/2013 |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260** | | Prep Date: **2/8/2013** | | Analyst: **AK** |
| 1,1,1,2-Tetrachloroethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,1,1-Trichloroethane | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,1,2,2-Tetrachloroethane | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,1,2-Trichloroethane | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,1-Dichloroethane | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,1-Dichloroethene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2,3-Trichloropropane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2,4-Trichlorobenzene | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2,4-Trimethylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2-Dibromo-3-chloropropane | ND | 34 | 10 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2-Dibromoethane | ND | 34 | 20 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2-Dichlorobenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2-Dichloroethane | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2-Dichloropropane | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,3,5-Trimethylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,3-Dichlorobenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,4-Dichlorobenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 2-Butanone | ND | 750 | 750 | | µg/Kg-dry | 1 | 2/8/2013 |
| 2-Hexanone | ND | 2,500 | 2,500 | | µg/Kg-dry | 1 | 2/8/2013 |
| 2-Methylnaphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/8/2013 |
| 4-Methyl-2-pentanone | ND | 2,500 | 2,500 | | µg/Kg-dry | 1 | 2/8/2013 |
| Acetone | ND | 1,000 | 1,000 | | µg/Kg-dry | 1 | 2/8/2013 |
| Acrylonitrile | ND | 110 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Benzene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Bromochloromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Bromodichloromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Bromomethane | ND | 200 | 200 | | µg/Kg-dry | 1 | 2/8/2013 |
| Carbon disulfide | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| Carbon tetrachloride | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Chlorobenzene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Chloroethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| Chloroform | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Chloromethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| cis-1,2-Dichloroethene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| cis-1,3-Dichloropropene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-15 (0.5-1') DUP |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 10:45:00 AM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-09 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Dibromochloromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Dibromomethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| Dichlorodifluoromethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| Diethyl ether | ND | 200 | 200 | | µg/Kg-dry | 1 | 2/8/2013 |
| Ethylbenzene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Hexachloroethane | ND | 300 | 300 | | µg/Kg-dry | 1 | 2/8/2013 |
| Isopropylbenzene | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| m,p-Xylene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Methyl iodide | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Methyl tert-butyl ether | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/8/2013 |
| Methylene chloride | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Naphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/8/2013 |
| n-Propylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| o-Xylene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Styrene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Tetrachloroethene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Toluene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| trans-1,2-Dichloroethene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| trans-1,3-Dichloropropene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| trans-1,4-Dichloro-2-butene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Trichloroethene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/8/2013 |
| Trichlorofluoromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Vinyl acetate | ND | 5,000 | 5,000 | | µg/Kg-dry | 1 | 2/8/2013 |
| Vinyl chloride | ND | 40 | 40 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,2-Dichloroethene, Total | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| 1,3-Dichloropropene, Total | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/8/2013 |
| Xylenes, Total | ND | 150 | 150 | | µg/Kg-dry | 1 | 2/8/2013 |
| *Surr: 1,2-Dichloroethane-d4* | *87.8* | *70-130* | | | *%REC* | 1 | 2/8/2013 |
| *Surr: 4-Bromofluorobenzene* | *105* | *70-130* | | | *%REC* | 1 | 2/8/2013 |
| *Surr: Dibromofluoromethane* | *82.6* | *70-130* | | | *%REC* | 1 | 2/8/2013 |
| *Surr: Toluene-d8* | *88.8* | *70-130* | | | *%REC* | 1 | 2/8/2013 |
| **MOISTURE** | | | **A2540 G** | | | | Analyst: **KF** |
| **Moisture** | **10** | **0.050** | **0** | | **% of sample** | 1 | 2/10/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-16 (0.5-1') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 11:30:00 AM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-10 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **SEMI-VOLATILE ORGANIC COMPOUNDS** | | | **SW8270** | | Prep Date: **2/11/2013** | | Analyst: **RM** |
| 1,1`-Biphenyl | ND | 410 | 0 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4,5-Trichlorophenol | ND | 300 | 300 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4,6-Trichlorophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dichlorophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dimethylphenol | ND | 410 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dinitrophenol | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dinitrotoluene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,6-Dinitrotoluene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Chloronaphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Chlorophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Methylnaphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Methylphenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Nitroaniline | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Nitrophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 3,3´-Dichlorobenzidine | ND | 2,000 | 2,000 | | µg/Kg-dry | 1 | 2/12/2013 |
| 3-Nitroaniline | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4,6-Dinitro-2-methylphenol | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Bromophenyl phenyl ether | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Chloro-3-methylphenol | ND | 280 | 280 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Chloroaniline | ND | 810 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Chlorophenyl phenyl ether | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Methylphenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Nitroaniline | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Nitrophenol | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| Acenaphthene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Acenaphthylene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Acetophenone | ND | 410 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Anthracene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Atrazine | ND | 410 | 50 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzaldehyde | ND | 410 | 0 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzo(a)anthracene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzo(a)pyrene | ND | 370 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Benzo(b)fluoranthene | ND | 370 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Benzo(g,h,i)perylene | ND | 370 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Benzo(k)fluoranthene | ND | 370 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Bis(2-chloroethoxy)methane | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Bis(2-chloroethyl)ether | ND | 200 | 100 | | µg/Kg-dry | 1 | 2/12/2013 |
| Bis(2-chloroisopropyl)ether | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Bis(2-ethylhexyl)phthalate | ND | 410 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-16 (0.5-1') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 11:30:00 AM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-10 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Butyl benzyl phthalate | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Caprolactam | ND | 410 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Carbazole | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| **Chrysene** | **360** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| Dibenzo(a,h)anthracene | ND | 370 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Dibenzofuran | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Diethyl phthalate | ND | 410 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Dimethyl phthalate | ND | 410 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Di-n-butyl phthalate | ND | 410 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Di-n-octyl phthalate | ND | 2,000 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| **Fluoranthene** | **360** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| Fluorene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachlorobenzene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachlorobutadiene | ND | 200 | 50 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachlorocyclopentadiene | ND | 410 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachloroethane | ND | 300 | 300 | | µg/Kg-dry | 1 | 2/12/2013 |
| Indeno(1,2,3-cd)pyrene | ND | 370 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Isophorone | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Naphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Nitrobenzene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| N-Nitrosodi-n-propylamine | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| N-Nitrosodiphenylamine | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Pentachlorophenol | ND | 410 | 20 | | µg/Kg-dry | 1 | 2/12/2013 |
| Phenanthrene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Phenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| **Pyrene** | **600** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| *Surr: 2,4,6-Tribromophenol* | *80.4* | *34-140* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 2-Fluorobiphenyl* | *75.3* | *12-100* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 2-Fluorophenol* | *77.0* | *33-117* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 4-Terphenyl-d14* | *87.0* | *25-137* | | | *%REC* | 10 | 2/13/2013 |
| *Surr: 4-Terphenyl-d14* | *144* | *25-137* | | S | *%REC* | 1 | 2/12/2013 |
| *Surr: Nitrobenzene-d5* | *76.6* | *37-107* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: Phenol-d6* | *84.1* | *40-106* | | | *%REC* | 1 | 2/12/2013 |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260** | | Prep Date: **2/8/2013** | | Analyst: **AK** |
| 1,1,1,2-Tetrachloroethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,1,1-Trichloroethane | ND | 64 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,1,2,2-Tetrachloroethane | ND | 64 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,1,2-Trichloroethane | ND | 64 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,1-Dichloroethane | ND | 64 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,1-Dichloroethene | ND | 64 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-16 (0.5-1') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 11:30:00 AM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-10 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| 1,2,3-Trichloropropane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,2,4-Trichlorobenzene | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,2,4-Trimethylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,2-Dibromo-3-chloropropane | ND | 64 | 10 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,2-Dibromoethane | ND | 64 | 20 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,2-Dichlorobenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,2-Dichloroethane | ND | 64 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,2-Dichloropropane | ND | 64 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,3,5-Trimethylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,3-Dichlorobenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,4-Dichlorobenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| 2-Butanone | ND | 750 | 750 | | µg/Kg-dry | 1 | 2/9/2013 |
| 2-Hexanone | ND | 2,500 | 2,500 | | µg/Kg-dry | 1 | 2/9/2013 |
| 2-Methylnaphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/9/2013 |
| 4-Methyl-2-pentanone | ND | 2,500 | 2,500 | | µg/Kg-dry | 1 | 2/9/2013 |
| Acetone | ND | 1,000 | 1,000 | | µg/Kg-dry | 1 | 2/9/2013 |
| Acrylonitrile | ND | 210 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Benzene | ND | 64 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Bromochloromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Bromodichloromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Bromomethane | ND | 200 | 200 | | µg/Kg-dry | 1 | 2/9/2013 |
| Carbon disulfide | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/9/2013 |
| Carbon tetrachloride | ND | 64 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Chlorobenzene | ND | 64 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Chloroethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/9/2013 |
| Chloroform | ND | 64 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Chloromethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/9/2013 |
| cis-1,2-Dichloroethene | ND | 64 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| cis-1,3-Dichloropropene | ND | 64 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Dibromochloromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Dibromomethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/9/2013 |
| Dichlorodifluoromethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/9/2013 |
| Diethyl ether | ND | 200 | 200 | | µg/Kg-dry | 1 | 2/9/2013 |
| Ethylbenzene | ND | 64 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Hexachloroethane | ND | 300 | 300 | | µg/Kg-dry | 1 | 2/9/2013 |
| Isopropylbenzene | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/9/2013 |
| m,p-Xylene | ND | 130 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Methyl iodide | ND | 160 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Methyl tert-butyl ether | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/9/2013 |
| Methylene chloride | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Naphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/9/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-16 (0.5-1') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 11:30:00 AM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-10 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| n-Propylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| o-Xylene | ND | 64 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Styrene | ND | 64 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Tetrachloroethene | ND | 64 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Toluene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| trans-1,2-Dichloroethene | ND | 64 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| trans-1,3-Dichloropropene | ND | 64 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| trans-1,4-Dichloro-2-butene | ND | 64 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Trichloroethene | ND | 64 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Trichlorofluoromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Vinyl acetate | ND | 5,000 | 5,000 | | µg/Kg-dry | 1 | 2/9/2013 |
| Vinyl chloride | ND | 64 | 40 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,2-Dichloroethene, Total | ND | 130 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,3-Dichloropropene, Total | ND | 130 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Xylenes, Total | ND | 190 | 150 | | µg/Kg-dry | 1 | 2/9/2013 |
| *Surr: 1,2-Dichloroethane-d4* | *86.9* | *70-130* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: 4-Bromofluorobenzene* | *110* | *70-130* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: Dibromofluoromethane* | *87.6* | *70-130* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: Toluene-d8* | *86.6* | *70-130* | | | *%REC* | 1 | 2/9/2013 |
| **MOISTURE** | | | **A2540 G** | | | | Analyst: **KF** |
| **Moisture** | **19** | **0.050** | **0** | | **% of sample** | 1 | 2/10/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-16 (8-9') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 11:35:00 AM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-11 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **SEMI-VOLATILE ORGANIC COMPOUNDS** | | | **SW8270** | | Prep Date: **2/11/2013** | | Analyst: **RM** |
| 1,1`-Biphenyl | ND | 530 | 0 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4,5-Trichlorophenol | ND | 300 | 300 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4,6-Trichlorophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dichlorophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dimethylphenol | ND | 530 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dinitrophenol | ND | 1,100 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dinitrotoluene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,6-Dinitrotoluene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Chloronaphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Chlorophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Methylnaphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Methylphenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Nitroaniline | ND | 1,100 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Nitrophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 3,3´-Dichlorobenzidine | ND | 2,000 | 2,000 | | µg/Kg-dry | 1 | 2/12/2013 |
| 3-Nitroaniline | ND | 1,100 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4,6-Dinitro-2-methylphenol | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Bromophenyl phenyl ether | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Chloro-3-methylphenol | ND | 280 | 280 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Chloroaniline | ND | 1,100 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Chlorophenyl phenyl ether | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Methylphenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Nitroaniline | ND | 1,100 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Nitrophenol | ND | 1,100 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| Acenaphthene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Acenaphthylene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Acetophenone | ND | 530 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Anthracene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Atrazine | ND | 530 | 50 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzaldehyde | ND | 530 | 0 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzo(a)anthracene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzo(a)pyrene | ND | 480 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Benzo(b)fluoranthene | ND | 480 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Benzo(g,h,i)perylene | ND | 480 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Benzo(k)fluoranthene | ND | 480 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Bis(2-chloroethoxy)methane | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Bis(2-chloroethyl)ether | ND | 260 | 100 | | µg/Kg-dry | 1 | 2/12/2013 |
| Bis(2-chloroisopropyl)ether | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Bis(2-ethylhexyl)phthalate | ND | 530 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-16 (8-9') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 11:35:00 AM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-11 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Butyl benzyl phthalate | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Caprolactam | ND | 530 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Carbazole | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Chrysene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Dibenzo(a,h)anthracene | ND | 480 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Dibenzofuran | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Diethyl phthalate | ND | 530 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Dimethyl phthalate | ND | 530 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Di-n-butyl phthalate | ND | 530 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Di-n-octyl phthalate | ND | 2,600 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Fluoranthene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Fluorene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachlorobenzene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachlorobutadiene | ND | 260 | 50 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachlorocyclopentadiene | ND | 530 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachloroethane | ND | 300 | 300 | | µg/Kg-dry | 1 | 2/12/2013 |
| Indeno(1,2,3-cd)pyrene | ND | 480 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Isophorone | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Naphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Nitrobenzene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| N-Nitrosodi-n-propylamine | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| N-Nitrosodiphenylamine | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Pentachlorophenol | ND | 530 | 20 | | µg/Kg-dry | 1 | 2/12/2013 |
| Phenanthrene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Phenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Pyrene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| *Surr: 2,4,6-Tribromophenol* | *83.1* | *34-140* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 2-Fluorobiphenyl* | *61.8* | *12-100* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 2-Fluorophenol* | *66.3* | *33-117* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 4-Terphenyl-d14* | *131* | *25-137* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: Nitrobenzene-d5* | *59.1* | *37-107* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: Phenol-d6* | *72.5* | *40-106* | | | *%REC* | 1 | 2/12/2013 |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260** | | Prep Date: **2/8/2013** | | Analyst: **AK** |
| 1,1,1,2-Tetrachloroethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,1,1-Trichloroethane | ND | 61 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,1,2,2-Tetrachloroethane | ND | 61 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,1,2-Trichloroethane | ND | 61 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,1-Dichloroethane | ND | 61 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,1-Dichloroethene | ND | 61 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,2,3-Trichloropropane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

**Client:** ECT, Inc
**Work Order:** 1302268
**Project:** Rock-Tenn Soil 2/5/13 - 2/6/13
**Lab ID:** 1302268-11

**Client Sample ID:** RT-GB-16 (8-9')
**Collection Date:** 2/6/2013 11:35:00 AM
**Matrix:** SOIL

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,2,4-Trimethylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,2-Dibromo-3-chloropropane | ND | 61 | 10 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,2-Dibromoethane | ND | 61 | 20 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,2-Dichlorobenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,2-Dichloroethane | ND | 61 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,2-Dichloropropane | ND | 61 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,3,5-Trimethylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,3-Dichlorobenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,4-Dichlorobenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| 2-Butanone | ND | 750 | 750 | | µg/Kg-dry | 1 | 2/9/2013 |
| 2-Hexanone | ND | 2,500 | 2,500 | | µg/Kg-dry | 1 | 2/9/2013 |
| 2-Methylnaphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/9/2013 |
| 4-Methyl-2-pentanone | ND | 2,500 | 2,500 | | µg/Kg-dry | 1 | 2/9/2013 |
| Acetone | ND | 1,000 | 1,000 | | µg/Kg-dry | 1 | 2/9/2013 |
| Acrylonitrile | ND | 200 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Benzene | ND | 61 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Bromochloromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Bromodichloromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Bromomethane | ND | 200 | 200 | | µg/Kg-dry | 1 | 2/9/2013 |
| Carbon disulfide | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/9/2013 |
| Carbon tetrachloride | ND | 61 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Chlorobenzene | ND | 61 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Chloroethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/9/2013 |
| Chloroform | ND | 61 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Chloromethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/9/2013 |
| cis-1,2-Dichloroethene | ND | 61 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| cis-1,3-Dichloropropene | ND | 61 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Dibromochloromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Dibromomethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/9/2013 |
| Dichlorodifluoromethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/9/2013 |
| Diethyl ether | ND | 200 | 200 | | µg/Kg-dry | 1 | 2/9/2013 |
| Ethylbenzene | ND | 61 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Hexachloroethane | ND | 300 | 300 | | µg/Kg-dry | 1 | 2/9/2013 |
| Isopropylbenzene | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/9/2013 |
| m,p-Xylene | ND | 120 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Methyl iodide | ND | 150 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Methyl tert-butyl ether | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/9/2013 |
| Methylene chloride | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Naphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/9/2013 |
| n-Propylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-16 (8-9') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 11:35:00 AM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-11 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| o-Xylene | ND | 61 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Styrene | ND | 61 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Tetrachloroethene | ND | 61 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Toluene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| trans-1,2-Dichloroethene | ND | 61 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| trans-1,3-Dichloropropene | ND | 61 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| trans-1,4-Dichloro-2-butene | ND | 61 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Trichloroethene | ND | 61 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Trichlorofluoromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Vinyl acetate | ND | 5,000 | 5,000 | | µg/Kg-dry | 1 | 2/9/2013 |
| Vinyl chloride | ND | 61 | 40 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,2-Dichloroethene, Total | ND | 120 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,3-Dichloropropene, Total | ND | 120 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Xylenes, Total | ND | 180 | 150 | | µg/Kg-dry | 1 | 2/9/2013 |
| *Surr: 1,2-Dichloroethane-d4* | *89.0* | *70-130* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: 4-Bromofluorobenzene* | *107* | *70-130* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: Dibromofluoromethane* | *87.2* | *70-130* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: Toluene-d8* | *86.3* | *70-130* | | | *%REC* | 1 | 2/9/2013 |
| **MOISTURE** | | | **A2540 G** | | | | Analyst: **KF** |
| **Moisture** | **38** | **0.050** | **0** | | **% of sample** | 1 | 2/10/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-17 (1-2') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 12:05:00 PM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-12 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **SEMI-VOLATILE ORGANIC COMPOUNDS** | | | **SW8270** | | Prep Date: **2/11/2013** | | Analyst: **RM** |
| 1,1`-Biphenyl | ND | 400 | 0 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4,5-Trichlorophenol | ND | 300 | 300 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4,6-Trichlorophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dichlorophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dimethylphenol | ND | 400 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dinitrophenol | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dinitrotoluene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,6-Dinitrotoluene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Chloronaphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Chlorophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| **2-Methylnaphthalene** | **600** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| 2-Methylphenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Nitroaniline | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Nitrophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 3,3´-Dichlorobenzidine | ND | 2,000 | 2,000 | | µg/Kg-dry | 1 | 2/12/2013 |
| 3-Nitroaniline | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4,6-Dinitro-2-methylphenol | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Bromophenyl phenyl ether | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Chloro-3-methylphenol | ND | 280 | 280 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Chloroaniline | ND | 800 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Chlorophenyl phenyl ether | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Methylphenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Nitroaniline | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Nitrophenol | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| Acenaphthene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Acenaphthylene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Acetophenone | ND | 400 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Anthracene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Atrazine | ND | 400 | 50 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzaldehyde | ND | 400 | 0 | | µg/Kg-dry | 1 | 2/12/2013 |
| **Benzo(a)anthracene** | **430** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| **Benzo(a)pyrene** | **670** | **360** | **330** | | **µg/Kg-dry** | 10 | 2/13/2013 |
| **Benzo(b)fluoranthene** | **850** | **360** | **330** | | **µg/Kg-dry** | 10 | 2/13/2013 |
| **Benzo(g,h,i)perylene** | **420** | **360** | **330** | | **µg/Kg-dry** | 10 | 2/13/2013 |
| **Benzo(k)fluoranthene** | **430** | **360** | **330** | | **µg/Kg-dry** | 10 | 2/13/2013 |
| Bis(2-chloroethoxy)methane | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Bis(2-chloroethyl)ether | ND | 190 | 100 | | µg/Kg-dry | 1 | 2/12/2013 |
| Bis(2-chloroisopropyl)ether | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Bis(2-ethylhexyl)phthalate | ND | 400 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-17 (1-2') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 12:05:00 PM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-12 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Butyl benzyl phthalate | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Caprolactam | ND | 400 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Carbazole | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| **Chrysene** | **580** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| Dibenzo(a,h)anthracene | ND | 360 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Dibenzofuran | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Diethyl phthalate | ND | 400 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Dimethyl phthalate | ND | 400 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Di-n-butyl phthalate | ND | 400 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Di-n-octyl phthalate | ND | 1,900 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| **Fluoranthene** | **330** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| Fluorene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachlorobenzene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachlorobutadiene | ND | 190 | 50 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachlorocyclopentadiene | ND | 400 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachloroethane | ND | 300 | 300 | | µg/Kg-dry | 1 | 2/12/2013 |
| Indeno(1,2,3-cd)pyrene | ND | 360 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Isophorone | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| **Naphthalene** | **340** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| Nitrobenzene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| N-Nitrosodi-n-propylamine | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| N-Nitrosodiphenylamine | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Pentachlorophenol | ND | 400 | 20 | | µg/Kg-dry | 1 | 2/12/2013 |
| **Phenanthrene** | **500** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| Phenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| **Pyrene** | **600** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| *Surr: 2,4,6-Tribromophenol* | *89.0* | *34-140* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 2-Fluorobiphenyl* | *72.1* | *12-100* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 2-Fluorophenol* | *70.2* | *33-117* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 4-Terphenyl-d14* | *86.8* | *25-137* | | | *%REC* | 10 | 2/13/2013 |
| *Surr: Nitrobenzene-d5* | *65.7* | *37-107* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: Phenol-d6* | *80.9* | *40-106* | | | *%REC* | 1 | 2/12/2013 |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260** | | Prep Date: **2/8/2013** | | Analyst: **AK** |
| 1,1,1,2-Tetrachloroethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,1,1-Trichloroethane | ND | 53 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,1,2,2-Tetrachloroethane | ND | 53 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,1,2-Trichloroethane | ND | 53 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,1-Dichloroethane | ND | 53 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,1-Dichloroethene | ND | 53 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,2,3-Trichloropropane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-17 (1-2') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 12:05:00 PM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-12 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/9/2013 |
| **1,2,4-Trimethylbenzene** | **140** | **100** | **100** | | **µg/Kg-dry** | 1 | 2/9/2013 |
| 1,2-Dibromo-3-chloropropane | ND | 53 | 10 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,2-Dibromoethane | ND | 53 | 20 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,2-Dichlorobenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,2-Dichloroethane | ND | 53 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,2-Dichloropropane | ND | 53 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,3,5-Trimethylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,3-Dichlorobenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,4-Dichlorobenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| 2-Butanone | ND | 750 | 750 | | µg/Kg-dry | 1 | 2/9/2013 |
| 2-Hexanone | ND | 2,500 | 2,500 | | µg/Kg-dry | 1 | 2/9/2013 |
| 2-Methylnaphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/9/2013 |
| 4-Methyl-2-pentanone | ND | 2,500 | 2,500 | | µg/Kg-dry | 1 | 2/9/2013 |
| Acetone | ND | 1,000 | 1,000 | | µg/Kg-dry | 1 | 2/9/2013 |
| Acrylonitrile | ND | 180 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Benzene | ND | 53 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Bromochloromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Bromodichloromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Bromomethane | ND | 200 | 200 | | µg/Kg-dry | 1 | 2/9/2013 |
| Carbon disulfide | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/9/2013 |
| Carbon tetrachloride | ND | 53 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Chlorobenzene | ND | 53 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Chloroethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/9/2013 |
| Chloroform | ND | 53 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Chloromethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/9/2013 |
| cis-1,2-Dichloroethene | ND | 53 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| cis-1,3-Dichloropropene | ND | 53 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Dibromochloromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Dibromomethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/9/2013 |
| Dichlorodifluoromethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/9/2013 |
| Diethyl ether | ND | 200 | 200 | | µg/Kg-dry | 1 | 2/9/2013 |
| Ethylbenzene | ND | 53 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Hexachloroethane | ND | 300 | 300 | | µg/Kg-dry | 1 | 2/9/2013 |
| Isopropylbenzene | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/9/2013 |
| **m,p-Xylene** | **300** | **110** | **100** | | **µg/Kg-dry** | 1 | 2/9/2013 |
| Methyl iodide | ND | 130 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Methyl tert-butyl ether | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/9/2013 |
| Methylene chloride | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Naphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/9/2013 |
| n-Propylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-17 (1-2') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 12:05:00 PM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-12 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **o-Xylene** | **170** | **53** | **50** | | **µg/Kg-dry** | 1 | 2/9/2013 |
| Styrene | ND | 53 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Tetrachloroethene | ND | 53 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| **Toluene** | **220** | **100** | **100** | | **µg/Kg-dry** | 1 | 2/9/2013 |
| trans-1,2-Dichloroethene | ND | 53 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| trans-1,3-Dichloropropene | ND | 53 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| trans-1,4-Dichloro-2-butene | ND | 53 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Trichloroethene | ND | 53 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Trichlorofluoromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Vinyl acetate | ND | 5,000 | 5,000 | | µg/Kg-dry | 1 | 2/9/2013 |
| Vinyl chloride | ND | 53 | 40 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,2-Dichloroethene, Total | ND | 110 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,3-Dichloropropene, Total | ND | 110 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| **Xylenes, Total** | **470** | **160** | **150** | | **µg/Kg-dry** | 1 | 2/9/2013 |
| *Surr: 1,2-Dichloroethane-d4* | *86.9* | *70-130* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: 4-Bromofluorobenzene* | *106* | *70-130* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: Dibromofluoromethane* | *86.5* | *70-130* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: Toluene-d8* | *88.0* | *70-130* | | | *%REC* | 1 | 2/9/2013 |
| **MOISTURE** | | | **A2540 G** | | | | Analyst: **KF** |
| **Moisture** | **18** | **0.050** | **0** | | **% of sample** | 1 | 2/10/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-18 (3-5') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 12:30:00 PM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-13 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **SEMI-VOLATILE ORGANIC COMPOUNDS** | | | **SW8270** | | Prep Date: **2/11/2013** | | Analyst: **RM** |
| 1,1`-Biphenyl | ND | 410 | 0 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4,5-Trichlorophenol | ND | 300 | 300 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4,6-Trichlorophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dichlorophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dimethylphenol | ND | 410 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dinitrophenol | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dinitrotoluene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,6-Dinitrotoluene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Chloronaphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Chlorophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| **2-Methylnaphthalene** | **600** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| 2-Methylphenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Nitroaniline | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Nitrophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 3,3´-Dichlorobenzidine | ND | 2,000 | 2,000 | | µg/Kg-dry | 1 | 2/12/2013 |
| 3-Nitroaniline | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4,6-Dinitro-2-methylphenol | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Bromophenyl phenyl ether | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Chloro-3-methylphenol | ND | 280 | 280 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Chloroaniline | ND | 830 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Chlorophenyl phenyl ether | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Methylphenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Nitroaniline | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Nitrophenol | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| Acenaphthene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Acenaphthylene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Acetophenone | ND | 410 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Anthracene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Atrazine | ND | 410 | 50 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzaldehyde | ND | 410 | 0 | | µg/Kg-dry | 1 | 2/12/2013 |
| **Benzo(a)anthracene** | **360** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| Benzo(a)pyrene | ND | 380 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Benzo(b)fluoranthene | ND | 380 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Benzo(g,h,i)perylene | ND | 380 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Benzo(k)fluoranthene | ND | 380 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Bis(2-chloroethoxy)methane | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Bis(2-chloroethyl)ether | ND | 200 | 100 | | µg/Kg-dry | 1 | 2/12/2013 |
| Bis(2-chloroisopropyl)ether | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Bis(2-ethylhexyl)phthalate | ND | 410 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-18 (3-5') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 12:30:00 PM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-13 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Butyl benzyl phthalate | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Caprolactam | ND | 410 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Carbazole | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| **Chrysene** | **780** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| Dibenzo(a,h)anthracene | ND | 380 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Dibenzofuran | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Diethyl phthalate | ND | 410 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Dimethyl phthalate | ND | 410 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| **Di-n-butyl phthalate** | **18,000** | **4,100** | **330** | | **µg/Kg-dry** | 10 | 2/13/2013 |
| Di-n-octyl phthalate | ND | 2,000 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| **Fluoranthene** | **620** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| Fluorene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachlorobenzene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachlorobutadiene | ND | 200 | 50 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachlorocyclopentadiene | ND | 410 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachloroethane | ND | 300 | 300 | | µg/Kg-dry | 1 | 2/12/2013 |
| Indeno(1,2,3-cd)pyrene | ND | 380 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Isophorone | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Naphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Nitrobenzene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| N-Nitrosodi-n-propylamine | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| N-Nitrosodiphenylamine | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Pentachlorophenol | ND | 410 | 20 | | µg/Kg-dry | 1 | 2/12/2013 |
| **Phenanthrene** | **570** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| Phenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| **Pyrene** | **1,700** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| *Surr: 2,4,6-Tribromophenol* | *83.0* | *34-140* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 2-Fluorobiphenyl* | *72.8* | *12-100* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 2-Fluorophenol* | *71.6* | *33-117* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 4-Terphenyl-d14* | *81.6* | *25-137* | | | *%REC* | 10 | 2/13/2013 |
| *Surr: Nitrobenzene-d5* | *67.6* | *37-107* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: Phenol-d6* | *79.1* | *40-106* | | | *%REC* | 1 | 2/12/2013 |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260** | | Prep Date: **2/8/2013** | | Analyst: **AK** |
| 1,1,1,2-Tetrachloroethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,1,1-Trichloroethane | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,1,2,2-Tetrachloroethane | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,1,2-Trichloroethane | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,1-Dichloroethane | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,1-Dichloroethene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,2,3-Trichloropropane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

**Client:** ECT, Inc
**Work Order:** 1302268
**Project:** Rock-Tenn Soil 2/5/13 - 2/6/13
**Lab ID:** 1302268-13

**Client Sample ID:** RT-GB-18 (3-5')
**Collection Date:** 2/6/2013 12:30:00 PM
**Matrix:** SOIL

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,2,4-Trimethylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,2-Dibromo-3-chloropropane | ND | 43 | 10 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,2-Dibromoethane | ND | 43 | 20 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,2-Dichlorobenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,2-Dichloroethane | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,2-Dichloropropane | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,3,5-Trimethylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,3-Dichlorobenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,4-Dichlorobenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| 2-Butanone | ND | 750 | 750 | | µg/Kg-dry | 1 | 2/9/2013 |
| 2-Hexanone | ND | 2,500 | 2,500 | | µg/Kg-dry | 1 | 2/9/2013 |
| 2-Methylnaphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/9/2013 |
| 4-Methyl-2-pentanone | ND | 2,500 | 2,500 | | µg/Kg-dry | 1 | 2/9/2013 |
| Acetone | ND | 1,000 | 1,000 | | µg/Kg-dry | 1 | 2/9/2013 |
| Acrylonitrile | ND | 140 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Benzene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Bromochloromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Bromodichloromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Bromomethane | ND | 200 | 200 | | µg/Kg-dry | 1 | 2/9/2013 |
| Carbon disulfide | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/9/2013 |
| Carbon tetrachloride | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Chlorobenzene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Chloroethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/9/2013 |
| Chloroform | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Chloromethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/9/2013 |
| cis-1,2-Dichloroethene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| cis-1,3-Dichloropropene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Dibromochloromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Dibromomethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/9/2013 |
| Dichlorodifluoromethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/9/2013 |
| Diethyl ether | ND | 200 | 200 | | µg/Kg-dry | 1 | 2/9/2013 |
| Ethylbenzene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Hexachloroethane | ND | 300 | 300 | | µg/Kg-dry | 1 | 2/9/2013 |
| Isopropylbenzene | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/9/2013 |
| m,p-Xylene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Methyl iodide | ND | 110 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Methyl tert-butyl ether | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/9/2013 |
| Methylene chloride | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Naphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/9/2013 |
| n-Propylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-18 (3-5') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 12:30:00 PM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-13 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **o-Xylene** | **72** | **50** | **50** | | **µg/Kg-dry** | 1 | 2/9/2013 |
| Styrene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Tetrachloroethene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Toluene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| trans-1,2-Dichloroethene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| trans-1,3-Dichloropropene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| trans-1,4-Dichloro-2-butene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Trichloroethene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Trichlorofluoromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Vinyl acetate | ND | 5,000 | 5,000 | | µg/Kg-dry | 1 | 2/9/2013 |
| Vinyl chloride | ND | 43 | 40 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,2-Dichloroethene, Total | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,3-Dichloropropene, Total | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| **Xylenes, Total** | **170** | **150** | **150** | | **µg/Kg-dry** | 1 | 2/9/2013 |
| *Surr: 1,2-Dichloroethane-d4* | *86.7* | *70-130* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: 4-Bromofluorobenzene* | *106* | *70-130* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: Dibromofluoromethane* | *86.5* | *70-130* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: Toluene-d8* | *87.0* | *70-130* | | | *%REC* | 1 | 2/9/2013 |
| **MOISTURE** | | | **A2540 G** | | | | Analyst: **KF** |
| **Moisture** | **21** | **0.050** | **0** | | **% of sample** | 1 | 2/10/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-19 (8-10') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 12:55:00 PM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-14 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **MERCURY BY CVAA** | | | **SW7471** | | Prep Date: **2/13/2013** | | Analyst: **LR** |
| **Mercury** | **0.15** | **0.050** | **0.050** | | **mg/Kg-dry** | 1 | 2/13/2013 |
| **METALS BY ICP-MS** | | | **SW6020A** | | Prep Date: **2/11/2013** | | Analyst: **RH** |
| **Arsenic** | **6.3** | **0.23** | **0.10** | | **mg/Kg-dry** | 1 | 2/11/2013 |
| **Barium** | **490** | **5.8** | **1.0** | | **mg/Kg-dry** | 10 | 2/18/2013 |
| **Cadmium** | **0.46** | **0.23** | **0.20** | | **mg/Kg-dry** | 1 | 2/11/2013 |
| **Chromium** | **4.9** | **2.0** | **2.0** | | **mg/Kg-dry** | 1 | 2/11/2013 |
| **Copper** | **29** | **1.0** | **1.0** | | **mg/Kg-dry** | 1 | 2/11/2013 |
| **Lead** | **13** | **1.0** | **1.0** | | **mg/Kg-dry** | 1 | 2/11/2013 |
| **Selenium** | **0.32** | **0.23** | **0.20** | | **mg/Kg-dry** | 1 | 2/11/2013 |
| Silver | ND | 0.12 | 0.10 | | mg/Kg-dry | 1 | 2/11/2013 |
| **Zinc** | **190** | **1.2** | **1.0** | | **mg/Kg-dry** | 1 | 2/11/2013 |
| **SEMI-VOLATILE ORGANIC COMPOUNDS** | | | **SW8270** | | Prep Date: **2/11/2013** | | Analyst: **RM** |
| **1,1`-Biphenyl** | **590** | **430** | **0** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| 2,4,5-Trichlorophenol | ND | 300 | 300 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4,6-Trichlorophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dichlorophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dimethylphenol | ND | 430 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dinitrophenol | ND | 850 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,4-Dinitrotoluene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2,6-Dinitrotoluene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Chloronaphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Chlorophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| **2-Methylnaphthalene** | **5,200** | **1,000** | **330** | | **µg/Kg-dry** | 10 | 2/13/2013 |
| 2-Methylphenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Nitroaniline | ND | 850 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Nitrophenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 3,3´-Dichlorobenzidine | ND | 2,000 | 2,000 | | µg/Kg-dry | 1 | 2/12/2013 |
| 3-Nitroaniline | ND | 850 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4,6-Dinitro-2-methylphenol | ND | 830 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Bromophenyl phenyl ether | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Chloro-3-methylphenol | ND | 280 | 280 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Chloroaniline | ND | 850 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Chlorophenyl phenyl ether | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Methylphenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Nitroaniline | ND | 850 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| 4-Nitrophenol | ND | 850 | 830 | | µg/Kg-dry | 1 | 2/12/2013 |
| Acenaphthene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Acenaphthylene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-19 (8-10') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 12:55:00 PM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-14 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Acetophenone | ND | 430 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Anthracene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Atrazine | ND | 430 | 50 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzaldehyde | ND | 430 | 0 | | µg/Kg-dry | 1 | 2/12/2013 |
| **Benzo(a)anthracene** | **540** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| **Benzo(a)pyrene** | **420** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| **Benzo(b)fluoranthene** | **380** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| Benzo(g,h,i)perylene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| **Benzo(k)fluoranthene** | **560** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| Bis(2-chloroethoxy)methane | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Bis(2-chloroethyl)ether | ND | 210 | 100 | | µg/Kg-dry | 1 | 2/12/2013 |
| Bis(2-chloroisopropyl)ether | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Bis(2-ethylhexyl)phthalate | ND | 430 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Butyl benzyl phthalate | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| **Caprolactam** | **1,300** | **430** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| Carbazole | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| **Chrysene** | **1,000** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| Dibenzo(a,h)anthracene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| **Dibenzofuran** | **1,500** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| Diethyl phthalate | ND | 430 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Dimethyl phthalate | ND | 430 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| **Di-n-butyl phthalate** | **1,300** | **430** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| Di-n-octyl phthalate | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| **Fluoranthene** | **650** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| Fluorene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachlorobenzene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachlorobutadiene | ND | 210 | 50 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachlorocyclopentadiene | ND | 430 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Hexachloroethane | ND | 300 | 300 | | µg/Kg-dry | 1 | 2/12/2013 |
| Indeno(1,2,3-cd)pyrene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Isophorone | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| **Naphthalene** | **2,900** | **390** | **330** | | **µg/Kg-dry** | 10 | 2/13/2013 |
| Nitrobenzene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| N-Nitrosodi-n-propylamine | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| N-Nitrosodiphenylamine | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Pentachlorophenol | ND | 430 | 20 | | µg/Kg-dry | 1 | 2/12/2013 |
| **Phenanthrene** | **3,000** | **390** | **330** | | **µg/Kg-dry** | 10 | 2/13/2013 |
| Phenol | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| **Pyrene** | **1,100** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| *Surr: 2,4,6-Tribromophenol* | *94.3* | *34-140* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 2-Fluorobiphenyl* | *73.2* | *12-100* | | | *%REC* | 1 | 2/12/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-19 (8-10') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 12:55:00 PM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-14 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| *Surr: 2-Fluorophenol* | *77.8* | *33-117* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 4-Terphenyl-d14* | *120* | *25-137* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: Nitrobenzene-d5* | *72.0* | *37-107* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: Phenol-d6* | *84.8* | *40-106* | | | *%REC* | 1 | 2/12/2013 |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260** | | Prep Date: **2/8/2013** | | Analyst: **AK** |
| 1,1,1,2-Tetrachloroethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,1,1-Trichloroethane | ND | 60 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,1,2,2-Tetrachloroethane | ND | 60 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,1,2-Trichloroethane | ND | 60 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,1-Dichloroethane | ND | 60 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,1-Dichloroethene | ND | 60 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,2,3-Trichloropropane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,2,4-Trichlorobenzene | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,2,4-Trimethylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,2-Dibromo-3-chloropropane | ND | 60 | 10 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,2-Dibromoethane | ND | 60 | 20 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,2-Dichlorobenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,2-Dichloroethane | ND | 60 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,2-Dichloropropane | ND | 60 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,3,5-Trimethylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,3-Dichlorobenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,4-Dichlorobenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| 2-Butanone | ND | 750 | 750 | | µg/Kg-dry | 1 | 2/9/2013 |
| 2-Hexanone | ND | 2,500 | 2,500 | | µg/Kg-dry | 1 | 2/9/2013 |
| 2-Methylnaphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/9/2013 |
| 4-Methyl-2-pentanone | ND | 2,500 | 2,500 | | µg/Kg-dry | 1 | 2/9/2013 |
| Acetone | ND | 1,000 | 1,000 | | µg/Kg-dry | 1 | 2/9/2013 |
| Acrylonitrile | ND | 200 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Benzene | ND | 60 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Bromochloromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Bromodichloromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Bromomethane | ND | 200 | 200 | | µg/Kg-dry | 1 | 2/9/2013 |
| Carbon disulfide | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/9/2013 |
| Carbon tetrachloride | ND | 60 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Chlorobenzene | ND | 60 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Chloroethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/9/2013 |
| Chloroform | ND | 60 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Chloromethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/9/2013 |
| cis-1,2-Dichloroethene | ND | 60 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| cis-1,3-Dichloropropene | ND | 60 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-19 (8-10') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 12:55:00 PM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-14 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Dibromochloromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Dibromomethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/9/2013 |
| Dichlorodifluoromethane | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/9/2013 |
| Diethyl ether | ND | 200 | 200 | | µg/Kg-dry | 1 | 2/9/2013 |
| Ethylbenzene | ND | 60 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Hexachloroethane | ND | 300 | 300 | | µg/Kg-dry | 1 | 2/9/2013 |
| Isopropylbenzene | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/9/2013 |
| m,p-Xylene | ND | 120 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Methyl iodide | ND | 150 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Methyl tert-butyl ether | ND | 250 | 250 | | µg/Kg-dry | 1 | 2/9/2013 |
| Methylene chloride | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Naphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/9/2013 |
| n-Propylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| o-Xylene | ND | 60 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Styrene | ND | 60 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Tetrachloroethene | ND | 60 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Toluene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| trans-1,2-Dichloroethene | ND | 60 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| trans-1,3-Dichloropropene | ND | 60 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| trans-1,4-Dichloro-2-butene | ND | 60 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Trichloroethene | ND | 60 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Trichlorofluoromethane | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Vinyl acetate | ND | 5,000 | 5,000 | | µg/Kg-dry | 1 | 2/9/2013 |
| Vinyl chloride | ND | 60 | 40 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,2-Dichloroethene, Total | ND | 120 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,3-Dichloropropene, Total | ND | 120 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Xylenes, Total | ND | 180 | 150 | | µg/Kg-dry | 1 | 2/9/2013 |
| *Surr: 1,2-Dichloroethane-d4* | *87.2* | *70-130* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: 4-Bromofluorobenzene* | *106* | *70-130* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: Dibromofluoromethane* | *87.1* | *70-130* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: Toluene-d8* | *88.1* | *70-130* | | | *%REC* | 1 | 2/9/2013 |
| **MOISTURE** | | | **A2540 G** | | | | Analyst: **KF** |
| **Moisture** | **24** | **0.050** | **0** | | **% of sample** | 1 | 2/10/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-20 (1-3') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 2:20:00 PM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-15 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **SEMI-VOLATILE ORGANIC COMPOUNDS** | | | **SW8270** | | Prep Date: **2/11/2013** | | Analyst: **RM** |
| 2-Chloronaphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| 2-Methylnaphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Acenaphthene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Acenaphthylene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Anthracene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzo(a)anthracene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzo(a)pyrene | ND | 420 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Benzo(b)fluoranthene | ND | 420 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Benzo(g,h,i)perylene | ND | 420 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Benzo(k)fluoranthene | ND | 420 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| **Chrysene** | **490** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| Dibenzo(a,h)anthracene | ND | 420 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| **Fluoranthene** | **460** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| Fluorene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Indeno(1,2,3-cd)pyrene | ND | 420 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Naphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| **Phenanthrene** | **390** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| **Pyrene** | **1,000** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| *Surr: 2-Fluorobiphenyl* | *69.8* | *12-100* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 4-Terphenyl-d14* | *82.2* | *25-137* | | | *%REC* | 10 | 2/13/2013 |
| *Surr: Nitrobenzene-d5* | *69.5* | *37-107* | | | *%REC* | 1 | 2/12/2013 |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260** | | Prep Date: **2/8/2013** | | Analyst: **AK** |
| 1,2,4-Trimethylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,3,5-Trimethylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Benzene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Ethylbenzene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| m,p-Xylene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| o-Xylene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Toluene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Xylenes, Total | ND | 150 | 150 | | µg/Kg-dry | 1 | 2/9/2013 |
| *Surr: 1,2-Dichloroethane-d4* | *91.0* | *70-130* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: 4-Bromofluorobenzene* | *109* | *70-130* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: Dibromofluoromethane* | *88.4* | *70-130* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: Toluene-d8* | *88.4* | *70-130* | | | *%REC* | 1 | 2/9/2013 |
| **MOISTURE** | | | **A2540 G** | | | | Analyst: **KF** |
| **Moisture** | **28** | **0.050** | **0** | | **% of sample** | 1 | 2/10/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-21 (1-3') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 2:35:00 PM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-16 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **SEMI-VOLATILE ORGANIC COMPOUNDS** | | | **SW8270** | | Prep Date: **2/11/2013** | | Analyst: **RM** |
| 2-Chloronaphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| **2-Methylnaphthalene** | **2,300** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| Acenaphthene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Acenaphthylene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Anthracene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzo(a)anthracene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzo(a)pyrene | ND | 530 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Benzo(b)fluoranthene | ND | 530 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Benzo(g,h,i)perylene | ND | 530 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Benzo(k)fluoranthene | ND | 530 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| **Chrysene** | **530** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| Dibenzo(a,h)anthracene | ND | 530 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Fluoranthene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Fluorene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Indeno(1,2,3-cd)pyrene | ND | 530 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| **Naphthalene** | **1,300** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| **Phenanthrene** | **2,100** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| **Pyrene** | **600** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| *Surr: 2-Fluorobiphenyl* | *75.9* | *12-100* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 4-Terphenyl-d14* | *83.2* | *25-137* | | | *%REC* | 10 | 2/13/2013 |
| *Surr: Nitrobenzene-d5* | *76.9* | *37-107* | | | *%REC* | 1 | 2/12/2013 |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260** | | Prep Date: **2/8/2013** | | Analyst: **AK** |
| 1,2,4-Trimethylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,3,5-Trimethylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Benzene | ND | 60 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Ethylbenzene | ND | 60 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| **m,p-Xylene** | **130** | **120** | **100** | | **µg/Kg-dry** | 1 | 2/9/2013 |
| **o-Xylene** | **74** | **60** | **50** | | **µg/Kg-dry** | 1 | 2/9/2013 |
| Toluene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| **Xylenes, Total** | **200** | **180** | **150** | | **µg/Kg-dry** | 1 | 2/9/2013 |
| *Surr: 1,2-Dichloroethane-d4* | *86.0* | *70-130* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: 4-Bromofluorobenzene* | *106* | *70-130* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: Dibromofluoromethane* | *84.2* | *70-130* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: Toluene-d8* | *88.8* | *70-130* | | | *%REC* | 1 | 2/9/2013 |
| **MOISTURE** | | | **A2540 G** | | | | Analyst: **KF** |
| **Moisture** | **20** | **0.050** | **0** | | **% of sample** | 1 | 2/10/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-22 (3-5') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 2:50:00 PM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-17 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **SEMI-VOLATILE ORGANIC COMPOUNDS** | | | **SW8270** | | Prep Date: **2/11/2013** | | Analyst: **RM** |
| 2-Chloronaphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| **2-Methylnaphthalene** | **980** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| Acenaphthene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Acenaphthylene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Anthracene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzo(a)anthracene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzo(a)pyrene | ND | 360 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Benzo(b)fluoranthene | ND | 360 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Benzo(g,h,i)perylene | ND | 360 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Benzo(k)fluoranthene | ND | 360 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| **Chrysene** | **420** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| Dibenzo(a,h)anthracene | ND | 360 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Fluoranthene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Fluorene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Indeno(1,2,3-cd)pyrene | ND | 360 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| **Naphthalene** | **520** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| **Phenanthrene** | **1,000** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| **Pyrene** | **490** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| *Surr: 2-Fluorobiphenyl* | *71.8* | *12-100* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 4-Terphenyl-d14* | *79.8* | *25-137* | | | *%REC* | 10 | 2/13/2013 |
| *Surr: Nitrobenzene-d5* | *71.7* | *37-107* | | | *%REC* | 1 | 2/12/2013 |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260** | | Prep Date: **2/8/2013** | | Analyst: **AK** |
| 1,2,4-Trimethylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,3,5-Trimethylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Benzene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Ethylbenzene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| m,p-Xylene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| o-Xylene | ND | 50 | 50 | J | µg/Kg-dry | 1 | 2/9/2013 |
| Toluene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Xylenes, Total | ND | 150 | 150 | | µg/Kg-dry | 1 | 2/9/2013 |
| *Surr: 1,2-Dichloroethane-d4* | *87.4* | *70-130* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: 4-Bromofluorobenzene* | *107* | *70-130* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: Dibromofluoromethane* | *86.2* | *70-130* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: Toluene-d8* | *86.3* | *70-130* | | | *%REC* | 1 | 2/9/2013 |
| **MOISTURE** | | | **A2540 G** | | | | Analyst: **KF** |
| **Moisture** | **18** | **0.050** | **0** | | **% of sample** | 1 | 2/10/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-22 (3-5') DUP |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 2:50:00 PM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-18 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **SEMI-VOLATILE ORGANIC COMPOUNDS** | | | **SW8270** | | Prep Date: **2/11/2013** | | Analyst: **RM** |
| 2-Chloronaphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| **2-Methylnaphthalene** | **1,500** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| Acenaphthene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Acenaphthylene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Anthracene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzo(a)anthracene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzo(a)pyrene | ND | 360 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Benzo(b)fluoranthene | ND | 360 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Benzo(g,h,i)perylene | ND | 360 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Benzo(k)fluoranthene | ND | 360 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| **Chrysene** | **600** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| Dibenzo(a,h)anthracene | ND | 360 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Fluoranthene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Fluorene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Indeno(1,2,3-cd)pyrene | ND | 360 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| **Naphthalene** | **730** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| **Phenanthrene** | **1,700** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| **Pyrene** | **650** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| *Surr: 2-Fluorobiphenyl* | *75.3* | *12-100* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 4-Terphenyl-d14* | *83.4* | *25-137* | | | *%REC* | 10 | 2/13/2013 |
| *Surr: Nitrobenzene-d5* | *73.7* | *37-107* | | | *%REC* | 1 | 2/12/2013 |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260** | | Prep Date: **2/8/2013** | | Analyst: **AK** |
| 1,2,4-Trimethylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,3,5-Trimethylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Benzene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Ethylbenzene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| m,p-Xylene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| **o-Xylene** | **64** | **50** | **50** | | **µg/Kg-dry** | 1 | 2/9/2013 |
| Toluene | ND | 100 | 100 | J | µg/Kg-dry | 1 | 2/9/2013 |
| Xylenes, Total | ND | 150 | 150 | | µg/Kg-dry | 1 | 2/9/2013 |
| *Surr: 1,2-Dichloroethane-d4* | *88.6* | *70-130* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: 4-Bromofluorobenzene* | *109* | *70-130* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: Dibromofluoromethane* | *87.0* | *70-130* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: Toluene-d8* | *87.0* | *70-130* | | | *%REC* | 1 | 2/9/2013 |
| **MOISTURE** | | | **A2540 G** | | | | Analyst: **KF** |
| **Moisture** | **17** | **0.050** | **0** | | **% of sample** | 1 | 2/10/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-23 (1-3') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 3:10:00 PM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-19 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **SEMI-VOLATILE ORGANIC COMPOUNDS** | | | **SW8270** | | Prep Date: **2/11/2013** | | Analyst: **RM** |
| 2-Chloronaphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| **2-Methylnaphthalene** | **540** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| Acenaphthene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Acenaphthylene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Anthracene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzo(a)anthracene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Benzo(a)pyrene | ND | 370 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Benzo(b)fluoranthene | ND | 370 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Benzo(g,h,i)perylene | ND | 370 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Benzo(k)fluoranthene | ND | 370 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Chrysene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Dibenzo(a,h)anthracene | ND | 370 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Fluoranthene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Fluorene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Indeno(1,2,3-cd)pyrene | ND | 370 | 330 | | µg/Kg-dry | 10 | 2/13/2013 |
| Naphthalene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| **Phenanthrene** | **620** | **330** | **330** | | **µg/Kg-dry** | 1 | 2/12/2013 |
| Pyrene | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| *Surr: 2-Fluorobiphenyl* | *75.0* | *12-100* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 4-Terphenyl-d14* | *84.6* | *25-137* | | | *%REC* | 10 | 2/13/2013 |
| *Surr: Nitrobenzene-d5* | *76.9* | *37-107* | | | *%REC* | 1 | 2/12/2013 |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260** | | Prep Date: **2/8/2013** | | Analyst: **BG** |
| 1,2,4-Trimethylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| 1,3,5-Trimethylbenzene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| Benzene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| Ethylbenzene | ND | 50 | 50 | | µg/Kg-dry | 1 | 2/9/2013 |
| **m,p-Xylene** | **110** | **100** | **100** | | **µg/Kg-dry** | 1 | 2/9/2013 |
| **o-Xylene** | **82** | **50** | **50** | | **µg/Kg-dry** | 1 | 2/9/2013 |
| Toluene | ND | 100 | 100 | | µg/Kg-dry | 1 | 2/9/2013 |
| **Xylenes, Total** | **200** | **150** | **150** | | **µg/Kg-dry** | 1 | 2/9/2013 |
| *Surr: 1,2-Dichloroethane-d4* | *90.6* | *70-130* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: 4-Bromofluorobenzene* | *101* | *70-130* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: Dibromofluoromethane* | *95.0* | *70-130* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: Toluene-d8* | *92.0* | *70-130* | | | *%REC* | 1 | 2/9/2013 |
| **MOISTURE** | | | **A2540 G** | | | | Analyst: **KF** |
| **Moisture** | **20** | **0.050** | **0** | | **% of sample** | 1 | 2/10/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-24 (0.5-1') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 3:55:00 PM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-20 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **PCBS** | | | **SW8082** | | Prep Date: **2/11/2013** | | Analyst: **JD** |
| Aroclor 1016 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1221 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1232 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1242 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1248 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1254 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1260 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1262 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1268 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| *Surr: Decachlorobiphenyl* | *86.1* | *40-140* | | | *%REC* | 1 | 2/12/2013 |
| **MOISTURE** | | | **A2540 G** | | | | Analyst: **KF** |
| **Moisture** | **5.8** | **0.050** | **0** | | **% of sample** | 1 | 2/10/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-24 (4-5') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 4:00:00 PM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-21 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **MOISTURE** | | | **A2540 G** | | | | Analyst: **KF** |
| **Moisture** | **6.8** | **0.050** | **0** | | **% of sample** | 1 | 2/11/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-25 (0.5-1') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 4:10:00 PM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-22 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **PCBS** | | | **SW8082** | | Prep Date: **2/11/2013** | | Analyst: **JD** |
| Aroclor 1016 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1221 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1232 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1242 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1248 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1254 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1260 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1262 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1268 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| *Surr: Decachlorobiphenyl* | *75.1* | *40-140* | | | *%REC* | 1 | 2/12/2013 |
| **MOISTURE** | | | **A2540 G** | | | | Analyst: **KF** |
| **Moisture** | **5.4** | **0.050** | **0** | | **% of sample** | 1 | 2/11/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-25 (4-5') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 4:15:00 PM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-23 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **MOISTURE** | | | **A2540 G** | | | | Analyst: **KF** |
| **Moisture** | **5.2** | **0.050** | **0** | | **% of sample** | 1 | 2/11/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-25 (4-5') DUP |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 4:15:00 PM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-24 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **MOISTURE** | | | **A2540 G** | | | | Analyst: **KF** |
| **Moisture** | **7.0** | **0.050** | **0** | | **% of sample** | 1 | 2/11/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-26 (0.5-1') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 4:25:00 PM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-25 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **PCBS** | | | **SW8082** | | Prep Date: **2/11/2013** | | Analyst: **JD** |
| Aroclor 1016 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1221 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1232 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1242 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1248 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1254 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1260 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1262 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1268 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| *Surr: Decachlorobiphenyl* | *79.1* | *40-140* | | | *%REC* | 1 | 2/12/2013 |
| **MOISTURE** | | | **A2540 G** | | | | Analyst: **KF** |
| **Moisture** | **5.1** | **0.050** | **0** | | **% of sample** | 1 | 2/11/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-26 (4-5') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 4:30:00 PM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-26 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **MOISTURE** | | | **A2540 G** | | | | Analyst: **KF** |
| **Moisture** | **4.1** | **0.050** | **0** | | **% of sample** | 1 | 2/11/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-27 (0.5-1') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 4:40:00 PM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-27 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **PCBS** | | | **SW8082** | | Prep Date: **2/11/2013** | | Analyst: **JD** |
| Aroclor 1016 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1221 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1232 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1242 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1248 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1254 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1260 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1262 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1268 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| *Surr: Decachlorobiphenyl* | *76.1* | *40-140* | | | *%REC* | 1 | 2/12/2013 |
| **MOISTURE** | | | **A2540 G** | | | | Analyst: **KF** |
| **Moisture** | **3.0** | **0.050** | **0** | | **% of sample** | 1 | 2/11/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-27 (4-5') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 4:45:00 PM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-28 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **MOISTURE** | | | **A2540 G** | | | | Analyst: **KF** |
| **Moisture** | **5.7** | **0.050** | **0** | | **% of sample** | 1 | 2/11/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-28 (0.5-1') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 4:50:00 PM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-29 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **PCBS** | | | **SW8082** | | Prep Date: **2/11/2013** | | Analyst: **JD** |
| Aroclor 1016 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1221 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1232 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1242 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1248 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1254 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1260 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1262 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1268 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| *Surr: Decachlorobiphenyl* | *79.1* | *40-140* | | | *%REC* | 1 | 2/12/2013 |
| **MOISTURE** | | | **A2540 G** | | | | Analyst: **KF** |
| **Moisture** | **5.4** | **0.050** | **0** | | **% of sample** | 1 | 2/11/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-28 (4-5') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 4:55:00 PM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-30 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **MOISTURE** | | | **A2540 G** | | | | Analyst: **KF** |
| **Moisture** | **7.3** | **0.050** | **0** | | **% of sample** | 1 | 2/11/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-29 (0.5-1') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 5:05:00 PM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-31 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **PCBS** | | | **SW8082** | | Prep Date: **2/11/2013** | | Analyst: **JD** |
| Aroclor 1016 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1221 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1232 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1242 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1248 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1254 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1260 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1262 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1268 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| *Surr: Decachlorobiphenyl* | *76.1* | *40-140* | | | *%REC* | 1 | 2/12/2013 |
| **MOISTURE** | | | **A2540 G** | | | | Analyst: **KF** |
| **Moisture** | **15** | **0.050** | **0** | | **% of sample** | 1 | 2/11/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-29 (4-5') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 5:10:00 PM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-32 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **MOISTURE** | | | **A2540 G** | | | | Analyst: **KF** |
| **Moisture** | **9.0** | **0.050** | **0** | | **% of sample** | 1 | 2/11/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-30 (4-5') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 5:15:00 PM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-33 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **MOISTURE** | | | **A2540 G** | | | | Analyst: **KF** |
| **Moisture** | **9.1** | **0.050** | **0** | | **% of sample** | 1 | 2/11/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-30 (0.5-1') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 5:20:00 PM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-34 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **PCBS** | | | **SW8082** | | Prep Date: **2/11/2013** | | Analyst: **JD** |
| Aroclor 1016 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1221 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1232 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1242 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1248 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1254 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1260 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1262 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1268 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| *Surr: Decachlorobiphenyl* | *76.1* | *40-140* | | | *%REC* | 1 | 2/12/2013 |
| **MOISTURE** | | | **A2540 G** | | | | Analyst: **KF** |
| **Moisture** | **7.6** | **0.050** | **0** | | **% of sample** | 1 | 2/11/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-31 (4-5') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 5:25:00 PM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-35 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **MOISTURE** | | | **A2540 G** | | | | Analyst: **KF** |
| **Moisture** | **7.7** | **0.050** | **0** | | **% of sample** | 1 | 2/11/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-31 (0.5-1') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 5:30:00 PM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-36 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **PCBS** | | | **SW8082** | | Prep Date: **2/11/2013** | | Analyst: **JD** |
| Aroclor 1016 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1221 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1232 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1242 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1248 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1254 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1260 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1262 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1268 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| *Surr: Decachlorobiphenyl* | *78.1* | *40-140* | | | *%REC* | 1 | 2/12/2013 |
| **MOISTURE** | | | **A2540 G** | | | | Analyst: **LR** |
| **Moisture** | **8.9** | **0.050** | **0** | | **% of sample** | 1 | 2/12/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-32 (0.5-1') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 5:30:00 PM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-37 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **PCBS** | | | **SW8082** | | Prep Date: **2/11/2013** | | Analyst: **JD** |
| Aroclor 1016 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1221 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1232 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1242 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1248 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1254 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1260 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1262 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| Aroclor 1268 | ND | 330 | 330 | | µg/Kg-dry | 1 | 2/12/2013 |
| *Surr: Decachlorobiphenyl* | *78.1* | *40-140* | | | *%REC* | 1 | 2/12/2013 |
| **MOISTURE** | | | **A2540 G** | | | | Analyst: **LR** |
| **Moisture** | **5.7** | **0.050** | **0** | | **% of sample** | 1 | 2/12/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-32 (4-5') |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 5:35:00 PM |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-38 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **MOISTURE** | | | **A2540 G** | | | | Analyst: **LR** |
| **Moisture** | **5.2** | **0.050** | **0** | | **% of sample** | 1 | 2/12/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | Trip Bank |
| **Work Order:** | 1302268 | **Collection Date:** | 2/6/2013 |
| **Project:** | Rock-Tenn Soil 2/5/13 - 2/6/13 | | |
| **Lab ID:** | 1302268-39 | **Matrix:** | SOIL |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260** | | Prep Date: **2/8/2013** | | Analyst: **AK** |
| 1,1,1,2-Tetrachloroethane | ND | 100 | 100 | | µg/Kg | 1 | 2/8/2013 |
| 1,1,1-Trichloroethane | ND | 50 | 50 | | µg/Kg | 1 | 2/8/2013 |
| 1,1,2,2-Tetrachloroethane | ND | 50 | 50 | | µg/Kg | 1 | 2/8/2013 |
| 1,1,2-Trichloroethane | ND | 50 | 50 | | µg/Kg | 1 | 2/8/2013 |
| 1,1-Dichloroethane | ND | 50 | 50 | | µg/Kg | 1 | 2/8/2013 |
| 1,1-Dichloroethene | ND | 50 | 50 | | µg/Kg | 1 | 2/8/2013 |
| 1,2,3-Trichloropropane | ND | 100 | 100 | | µg/Kg | 1 | 2/8/2013 |
| 1,2,4-Trichlorobenzene | ND | 250 | 250 | | µg/Kg | 1 | 2/8/2013 |
| 1,2,4-Trimethylbenzene | ND | 100 | 100 | | µg/Kg | 1 | 2/8/2013 |
| 1,2-Dibromo-3-chloropropane | ND | 30 | 10 | | µg/Kg | 1 | 2/8/2013 |
| 1,2-Dibromoethane | ND | 30 | 20 | | µg/Kg | 1 | 2/8/2013 |
| 1,2-Dichlorobenzene | ND | 100 | 100 | | µg/Kg | 1 | 2/8/2013 |
| 1,2-Dichloroethane | ND | 50 | 50 | | µg/Kg | 1 | 2/8/2013 |
| 1,2-Dichloropropane | ND | 50 | 50 | | µg/Kg | 1 | 2/8/2013 |
| 1,3,5-Trimethylbenzene | ND | 100 | 100 | | µg/Kg | 1 | 2/8/2013 |
| 1,3-Dichlorobenzene | ND | 100 | 100 | | µg/Kg | 1 | 2/8/2013 |
| 1,4-Dichlorobenzene | ND | 100 | 100 | | µg/Kg | 1 | 2/8/2013 |
| 2-Butanone | ND | 750 | 750 | | µg/Kg | 1 | 2/8/2013 |
| 2-Hexanone | ND | 2,500 | 2,500 | | µg/Kg | 1 | 2/8/2013 |
| 2-Methylnaphthalene | ND | 330 | 330 | | µg/Kg | 1 | 2/8/2013 |
| 4-Methyl-2-pentanone | ND | 2,500 | 2,500 | | µg/Kg | 1 | 2/8/2013 |
| Acetone | ND | 1,000 | 1,000 | | µg/Kg | 1 | 2/8/2013 |
| Acrylonitrile | ND | 100 | 100 | | µg/Kg | 1 | 2/8/2013 |
| Benzene | ND | 50 | 50 | | µg/Kg | 1 | 2/8/2013 |
| Bromochloromethane | ND | 100 | 100 | | µg/Kg | 1 | 2/8/2013 |
| Bromodichloromethane | ND | 100 | 100 | | µg/Kg | 1 | 2/8/2013 |
| Bromomethane | ND | 200 | 200 | | µg/Kg | 1 | 2/8/2013 |
| Carbon disulfide | ND | 250 | 250 | | µg/Kg | 1 | 2/8/2013 |
| Carbon tetrachloride | ND | 50 | 50 | | µg/Kg | 1 | 2/8/2013 |
| Chlorobenzene | ND | 50 | 50 | | µg/Kg | 1 | 2/8/2013 |
| Chloroethane | ND | 250 | 250 | | µg/Kg | 1 | 2/8/2013 |
| Chloroform | ND | 50 | 50 | | µg/Kg | 1 | 2/8/2013 |
| Chloromethane | ND | 250 | 250 | | µg/Kg | 1 | 2/8/2013 |
| cis-1,2-Dichloroethene | ND | 50 | 50 | | µg/Kg | 1 | 2/8/2013 |
| cis-1,3-Dichloropropene | ND | 50 | 50 | | µg/Kg | 1 | 2/8/2013 |
| Dibromochloromethane | ND | 100 | 100 | | µg/Kg | 1 | 2/8/2013 |
| Dibromomethane | ND | 250 | 250 | | µg/Kg | 1 | 2/8/2013 |
| Dichlorodifluoromethane | ND | 250 | 250 | | µg/Kg | 1 | 2/8/2013 |
| Diethyl ether | ND | 200 | 200 | | µg/Kg | 1 | 2/8/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *19-Feb-13*

**Client:** ECT, Inc
**Work Order:** 1302268
**Project:** Rock-Tenn Soil 2/5/13 - 2/6/13
**Lab ID:** 1302268-39

**Client Sample ID:** Trip Bank
**Collection Date:** 2/6/2013
**Matrix:** SOIL

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Ethylbenzene | ND | 50 | 50 | | µg/Kg | 1 | 2/8/2013 |
| Hexachloroethane | ND | 300 | 300 | | µg/Kg | 1 | 2/8/2013 |
| Isopropylbenzene | ND | 250 | 250 | | µg/Kg | 1 | 2/8/2013 |
| m,p-Xylene | ND | 100 | 100 | | µg/Kg | 1 | 2/8/2013 |
| Methyl iodide | ND | 100 | 100 | | µg/Kg | 1 | 2/8/2013 |
| Methyl tert-butyl ether | ND | 250 | 250 | | µg/Kg | 1 | 2/8/2013 |
| Methylene chloride | ND | 100 | 100 | | µg/Kg | 1 | 2/8/2013 |
| Naphthalene | ND | 330 | 330 | | µg/Kg | 1 | 2/8/2013 |
| n-Propylbenzene | ND | 100 | 100 | | µg/Kg | 1 | 2/8/2013 |
| o-Xylene | ND | 50 | 50 | | µg/Kg | 1 | 2/8/2013 |
| Styrene | ND | 50 | 50 | | µg/Kg | 1 | 2/8/2013 |
| Tetrachloroethene | ND | 50 | 50 | | µg/Kg | 1 | 2/8/2013 |
| Toluene | ND | 100 | 100 | | µg/Kg | 1 | 2/8/2013 |
| trans-1,2-Dichloroethene | ND | 50 | 50 | | µg/Kg | 1 | 2/8/2013 |
| trans-1,3-Dichloropropene | ND | 50 | 50 | | µg/Kg | 1 | 2/8/2013 |
| trans-1,4-Dichloro-2-butene | ND | 50 | 50 | | µg/Kg | 1 | 2/8/2013 |
| Trichloroethene | ND | 50 | 50 | | µg/Kg | 1 | 2/8/2013 |
| Trichlorofluoromethane | ND | 100 | 100 | | µg/Kg | 1 | 2/8/2013 |
| Vinyl acetate | ND | 5,000 | 5,000 | | µg/Kg | 1 | 2/8/2013 |
| Vinyl chloride | ND | 40 | 40 | | µg/Kg | 1 | 2/8/2013 |
| 1,2-Dichloroethene, Total | ND | 100 | 100 | | µg/Kg | 1 | 2/8/2013 |
| 1,3-Dichloropropene, Total | ND | 100 | 100 | | µg/Kg | 1 | 2/8/2013 |
| Xylenes, Total | ND | 150 | 150 | | µg/Kg | 1 | 2/8/2013 |
| *Surr: 1,2-Dichloroethane-d4* | *88.0* | *70-130* | | | *%REC* | 1 | 2/8/2013 |
| *Surr: 4-Bromofluorobenzene* | *107* | *70-130* | | | *%REC* | 1 | 2/8/2013 |
| *Surr: Dibromofluoromethane* | *89.0* | *70-130* | | | *%REC* | 1 | 2/8/2013 |
| *Surr: Toluene-d8* | *90.0* | *70-130* | | | *%REC* | 1 | 2/8/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

Batch ID: **46336** Instrument ID **GC12** Method: **SW8082**

| **MBLK** | Sample ID: **PBLKS1-46336-46336** | | | | Units: **µg/Kg** | | | Analysis Date: **2/12/2013 09:53 AM** | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | Run ID: **GC12_130212A** | | | | SeqNo: **2213627** | | | Prep Date: **2/11/2013** | | DF: **1** |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Aroclor 1016 | ND | 40 | | | | | | | | |
| Aroclor 1221 | ND | 40 | | | | | | | | |
| Aroclor 1232 | ND | 40 | | | | | | | | |
| Aroclor 1242 | ND | 40 | | | | | | | | |
| Aroclor 1248 | ND | 40 | | | | | | | | |
| Aroclor 1254 | ND | 40 | | | | | | | | |
| Aroclor 1260 | ND | 40 | | | | | | | | |
| Aroclor 1262 | ND | 40 | | | | | | | | |
| Aroclor 1268 | ND | 40 | | | | | | | | |
| *Surr: Decachlorobiphenyl* | *29.33* | 0 | *33.3* | 0 | *88.1* | *50-130* | 0 | | | |

| **MBLK** | Sample ID: **PBLKS1-46336-46336** | | | | Units: **µg/Kg** | | | Analysis Date: **2/12/2013 09:53 AM** | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | Run ID: **GC12_130212A** | | | | SeqNo: **2213632** | | | Prep Date: **2/11/2013** | | DF: **1** |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Aroclor 1016 | ND | 40 | | | | | | | | |
| Aroclor 1221 | ND | 40 | | | | | | | | |
| Aroclor 1232 | ND | 40 | | | | | | | | |
| Aroclor 1242 | ND | 40 | | | | | | | | |
| Aroclor 1248 | ND | 40 | | | | | | | | |
| Aroclor 1254 | ND | 40 | | | | | | | | |
| Aroclor 1260 | ND | 40 | | | | | | | | |
| *Surr: Decachlorobiphenyl* | *29.33* | 0 | *33.3* | 0 | *88.1* | *40-140* | 0 | | | |

| **LCS** | Sample ID: **PLCSS1-46336-46336** | | | | Units: **µg/Kg** | | | Analysis Date: **2/12/2013 10:12 AM** | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | Run ID: **GC12_130212A** | | | | SeqNo: **2213628** | | | Prep Date: **2/11/2013** | | DF: **1** |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Aroclor 1016 | 945.3 | 40 | 833 | 0 | 113 | 50-130 | 0 | | | |
| Aroclor 1260 | 932.3 | 40 | 833 | 0 | 112 | 50-130 | 0 | | | |
| *Surr: Decachlorobiphenyl* | *30* | 0 | *33.3* | 0 | *90.1* | *50-130* | 0 | | | |

| **LCS** | Sample ID: **PLCSS1-46336-46336** | | | | Units: **µg/Kg** | | | Analysis Date: **2/12/2013 10:12 AM** | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | Run ID: **GC12_130212A** | | | | SeqNo: **2213633** | | | Prep Date: **2/11/2013** | | DF: **1** |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Aroclor 1016 | 945.3 | 40 | 833 | 0 | 113 | 50-130 | 0 | | | |
| Aroclor 1260 | 932.3 | 40 | 833 | 0 | 112 | 50-130 | 0 | | | |
| *Surr: Decachlorobiphenyl* | *30* | 0 | *33.3* | 0 | *90.1* | *40-140* | 0 | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302268
**Project:** Rock-Tenn Soil 2/5/13 - 2/6/13

# QC BATCH REPORT

Batch ID: **46336** Instrument ID **GC12** Method: **SW8082**

**MS** Sample ID: **1302268-27A MS** Units: **µg/Kg** Analysis Date: **2/12/2013 11:32 AM**
Client ID: **RT-GB-27 (0.5-1')** Run ID: **GC12_130212A** SeqNo: **2213623** Prep Date: **2/11/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | 791.4 | 39 | 806.9 | 0 | 98.1 | 40-140 | 0 | | | |
| Aroclor 1260 | 749.1 | 39 | 806.9 | 0 | 92.8 | 40-140 | 0 | | | |
| *Surr: Decachlorobiphenyl* | *26.8* | 0 | *32.26* | 0 | *83.1* | *40-140* | 0 | | | |

**MSD** Sample ID: **1302268-27A MSD** Units: **µg/Kg** Analysis Date: **2/12/2013 11:51 AM**
Client ID: **RT-GB-27 (0.5-1')** Run ID: **GC12_130212A** SeqNo: **2213624** Prep Date: **2/11/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | 803.4 | 38 | 796.4 | 0 | 101 | 40-140 | 791.4 | 1.5 | 50 | |
| Aroclor 1260 | 727.9 | 38 | 796.4 | 0 | 91.4 | 40-140 | 749.1 | 2.88 | 50 | |
| *Surr: Decachlorobiphenyl* | *24.86* | 0 | *31.84* | 0 | *78.1* | *40-140* | 26.8 | *7.52* | *50* | |

**The following samples were analyzed in this batch:**

| | | |
|---|---|---|
| 1302268-20A | 1302268-22A | 1302268-25A |
| 1302268-27A | 1302268-29A | 1302268-31A |
| 1302268-34A | 1302268-36A | 1302268-37A |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302268
**Project:** Rock-Tenn Soil 2/5/13 - 2/6/13

# QC BATCH REPORT

Batch ID: **46393** Instrument ID **HG1** Method: **SW7471**

**MBLK** Sample ID: **MBLK-46393-46393** Units: **mg/Kg** Analysis Date: **2/13/2013 03:30 PM**
Client ID: Run ID: **HG1_130213A** SeqNo: **2214780** Prep Date: **2/13/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.002583 | 0.020 | | | | | | | | J |

**LCS** Sample ID: **LCS-46393-46393** Units: **mg/Kg** Analysis Date: **2/13/2013 03:32 PM**
Client ID: Run ID: **HG1_130213A** SeqNo: **2214781** Prep Date: **2/13/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.1806 | 0.020 | 0.1665 | 0 | 108 | 80-120 | 0 | | | |

**MS** Sample ID: **1302268-14BMS** Units: **mg/Kg** Analysis Date: **2/13/2013 04:03 PM**
Client ID: **RT-GB-19 (8-10')** Run ID: **HG1_130213A** SeqNo: **2214793** Prep Date: **2/13/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.2742 | 0.017 | 0.1384 | 0.1182 | 113 | 75-125 | 0 | | | |

**MSD** Sample ID: **1302268-14BMSD** Units: **mg/Kg** Analysis Date: **2/13/2013 04:05 PM**
Client ID: **RT-GB-19 (8-10')** Run ID: **HG1_130213A** SeqNo: **2214794** Prep Date: **2/13/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.2619 | 0.016 | 0.137 | 0.1182 | 105 | 75-125 | 0.2742 | 4.59 | 35 | |

**The following samples were analyzed in this batch:**

| | | |
|---|---|---|
| 1302268-01B | 1302268-02B | 1302268-08B |
| 1302268-09B | 1302268-14B | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302268
**Project:** Rock-Tenn Soil 2/5/13 - 2/6/13

# QC BATCH REPORT

Batch ID: **46343** Instrument ID **ICPMS1** Method: **SW6020A**

**MBLK** Sample ID: **MBLK-46343-46343** Units: **mg/Kg** Analysis Date: **2/11/2013 04:02 PM**
Client ID: Run ID: **ICPMS1_130211A** SeqNo: **2213058** Prep Date: **2/11/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | 0.25 | | | | | | | | |
| Barium | ND | 0.25 | | | | | | | | |
| Boron | 0.2548 | 1.0 | | | | | | | | J |
| Cadmium | ND | 0.10 | | | | | | | | |
| Chromium | 0.00987 | 0.25 | | | | | | | | J |
| Copper | 0.02114 | 0.25 | | | | | | | | J |
| Iron | 0.8675 | 4.0 | | | | | | | | J |
| Lead | 0.001395 | 0.25 | | | | | | | | J |
| Magnesium | ND | 10 | | | | | | | | |
| Selenium | ND | 0.25 | | | | | | | | |
| Silver | ND | 0.25 | | | | | | | | |
| Thallium | 0.01799 | 0.25 | | | | | | | | J |
| Zinc | ND | 0.50 | | | | | | | | |

**LCS** Sample ID: **LCS-46343-46343** Units: **mg/Kg** Analysis Date: **2/11/2013 03:56 PM**
Client ID: Run ID: **ICPMS1_130211A** SeqNo: **2213057** Prep Date: **2/11/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 4.929 | 0.25 | 5 | 0 | 98.6 | 80-120 | 0 | | | |
| Barium | 4.9 | 0.25 | 5 | 0 | 98 | 80-120 | 0 | | | |
| Boron | 25.48 | 1.0 | 25 | 0 | 102 | 80-120 | 0 | | | |
| Cadmium | 4.916 | 0.10 | 5 | 0 | 98.3 | 80-120 | 0 | | | |
| Chromium | 4.964 | 0.25 | 5 | 0 | 99.3 | 80-120 | 0 | | | |
| Copper | 4.99 | 0.25 | 5 | 0 | 99.8 | 80-120 | 0 | | | |
| Iron | 505 | 4.0 | 500 | 0 | 101 | 80-120 | 0 | | | |
| Lead | 5.075 | 0.25 | 5 | 0 | 102 | 80-120 | 0 | | | |
| Magnesium | 503 | 10 | 500 | 0 | 101 | 80-120 | 0 | | | |
| Selenium | 4.844 | 0.25 | 5 | 0 | 96.9 | 80-120 | 0 | | | |
| Silver | 5.035 | 0.25 | 5 | 0 | 101 | 80-120 | 0 | | | |
| Thallium | 4.786 | 0.25 | 5 | 0 | 95.7 | 80-120 | 0 | | | |
| Zinc | 4.882 | 0.50 | 5 | 0 | 97.6 | 80-120 | 0 | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302268
**Project:** Rock-Tenn Soil 2/5/13 - 2/6/13

# QC BATCH REPORT

Batch ID: **46343** Instrument ID **ICPMS1** Method: **SW6020A**

**MS** Sample ID: **1302268-14BMS** Units: **mg/Kg** Analysis Date: **2/11/2013 04:31 PM**
Client ID: **RT-GB-19 (8-10')** Run ID: **ICPMS1_130211A** SeqNo: **2213063** Prep Date: **2/11/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 11.52 | 0.46 | 9.259 | 4.798 | 72.6 | 75-125 | 0 | | | S |
| Barium | 223.9 | 0.46 | 9.259 | 338.3 | -1240 | 75-125 | 0 | | | SEO |
| Boron | 40.44 | 1.9 | 46.3 | 1.317 | 84.5 | 75-125 | 0 | | | |
| Cadmium | 9.306 | 0.19 | 9.259 | 0.3481 | 96.7 | 75-125 | 0 | | | |
| Chromium | 13.41 | 0.46 | 9.259 | 3.732 | 104 | 75-125 | 0 | | | |
| Copper | 31.72 | 0.46 | 9.259 | 21.79 | 107 | 75-125 | 0 | | | |
| Iron | 7427 | 7.4 | 925.9 | 5932 | 161 | 75-125 | 0 | | | SO |
| Lead | 20.34 | 0.46 | 9.259 | 10.04 | 111 | 75-125 | 0 | | | |
| Magnesium | 1114 | 19 | 925.9 | 139 | 105 | 75-125 | 0 | | | |
| Selenium | 8.58 | 0.46 | 9.259 | 0.2466 | 90 | 75-125 | 0 | | | |
| Silver | 8.659 | 0.46 | 9.259 | 0.04331 | 93.1 | 75-125 | 0 | | | |
| Thallium | 8.75 | 0.46 | 9.259 | 0.01916 | 94.3 | 75-125 | 0 | | | |
| Zinc | 164.2 | 0.93 | 9.259 | 145.6 | 201 | 75-125 | 0 | | | SO |

**MSD** Sample ID: **1302268-14BMSD** Units: **mg/Kg** Analysis Date: **2/11/2013 04:37 PM**
Client ID: **RT-GB-19 (8-10')** Run ID: **ICPMS1_130211A** SeqNo: **2213064** Prep Date: **2/11/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 12.3 | 0.48 | 9.524 | 4.798 | 78.7 | 75-125 | 11.52 | 6.52 | 25 | |
| Barium | 204.3 | 0.48 | 9.524 | 338.3 | -1410 | 75-125 | 223.9 | 9.16 | 25 | SEO |
| Boron | 42.8 | 1.9 | 47.62 | 1.317 | 87.1 | 75-125 | 40.44 | 5.68 | 25 | |
| Cadmium | 9.488 | 0.19 | 9.524 | 0.3481 | 96 | 75-125 | 9.306 | 1.94 | 25 | |
| Chromium | 12.67 | 0.48 | 9.524 | 3.732 | 93.8 | 75-125 | 13.41 | 5.68 | 25 | |
| Copper | 26.1 | 0.48 | 9.524 | 21.79 | 45.3 | 75-125 | 31.72 | 19.4 | 25 | S |
| Iron | 11660 | 7.6 | 952.4 | 5932 | 601 | 75-125 | 7427 | 44.3 | 25 | SRO |
| Lead | 19.05 | 0.48 | 9.524 | 10.04 | 94.5 | 75-125 | 20.34 | 6.58 | 25 | |
| Magnesium | 1115 | 19 | 952.4 | 139 | 103 | 75-125 | 1114 | 0.121 | 25 | |
| Selenium | 8.969 | 0.48 | 9.524 | 0.2466 | 91.6 | 75-125 | 8.58 | 4.43 | 25 | |
| Silver | 9.03 | 0.48 | 9.524 | 0.04331 | 94.4 | 75-125 | 8.659 | 4.19 | 25 | |
| Thallium | 9.138 | 0.48 | 9.524 | 0.01916 | 95.7 | 75-125 | 8.75 | 4.34 | 25 | |
| Zinc | 139 | 0.95 | 9.524 | 145.6 | -68.7 | 75-125 | 164.2 | 16.6 | 25 | SO |

**The following samples were analyzed in this batch:**

| | | |
|---|---|---|
| 1302268-01B | 1302268-02B | 1302268-08B |
| 1302268-09B | 1302268-14B | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302268
**Project:** Rock-Tenn Soil 2/5/13 - 2/6/13

# QC BATCH REPORT

Batch ID: **46335** Instrument ID **SVMS6** Method: **SW8270**

**MBLK** Sample ID: **SBLKS1-46335-46335** Units: **µg/Kg** Analysis Date: **2/12/2013 04:06 PM**
Client ID: Run ID: **SVMS6_130212A** SeqNo: **2215031** Prep Date: **2/11/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1`-Biphenyl | ND | 330 | | | | | | | | |
| 2,4,5-Trichlorophenol | ND | 160 | | | | | | | | |
| 2,4,6-Trichlorophenol | ND | 160 | | | | | | | | |
| 2,4-Dichlorophenol | ND | 160 | | | | | | | | |
| 2,4-Dimethylphenol | ND | 330 | | | | | | | | |
| 2,4-Dinitrophenol | ND | 660 | | | | | | | | |
| 2,4-Dinitrotoluene | ND | 160 | | | | | | | | |
| 2,6-Dinitrotoluene | ND | 160 | | | | | | | | |
| 2-Chloronaphthalene | ND | 80 | | | | | | | | |
| 2-Chlorophenol | ND | 160 | | | | | | | | |
| 2-Methylnaphthalene | ND | 80 | | | | | | | | |
| 2-Methylphenol | ND | 160 | | | | | | | | |
| 2-Nitroaniline | ND | 660 | | | | | | | | |
| 2-Nitrophenol | ND | 160 | | | | | | | | |
| 3,3´-Dichlorobenzidine | ND | 660 | | | | | | | | |
| 3-Nitroaniline | ND | 660 | | | | | | | | |
| 4,6-Dinitro-2-methylphenol | ND | 330 | | | | | | | | |
| 4-Bromophenyl phenyl ether | ND | 160 | | | | | | | | |
| 4-Chloro-3-methylphenol | ND | 160 | | | | | | | | |
| 4-Chloroaniline | ND | 660 | | | | | | | | |
| 4-Chlorophenyl phenyl ether | ND | 160 | | | | | | | | |
| 4-Methylphenol | ND | 160 | | | | | | | | |
| 4-Nitroaniline | ND | 660 | | | | | | | | |
| 4-Nitrophenol | ND | 660 | | | | | | | | |
| Acenaphthene | ND | 30 | | | | | | | | |
| Acenaphthylene | ND | 30 | | | | | | | | |
| Acetophenone | ND | 330 | | | | | | | | |
| Anthracene | ND | 30 | | | | | | | | |
| Atrazine | ND | 330 | | | | | | | | |
| Benzaldehyde | ND | 330 | | | | | | | | |
| Benzo(a)anthracene | ND | 30 | | | | | | | | |
| Benzo(a)pyrene | ND | 30 | | | | | | | | |
| Benzo(b)fluoranthene | ND | 30 | | | | | | | | |
| Benzo(g,h,i)perylene | ND | 30 | | | | | | | | |
| Benzo(k)fluoranthene | ND | 30 | | | | | | | | |
| Bis(2-chloroethoxy)methane | ND | 160 | | | | | | | | |
| Bis(2-chloroethyl)ether | ND | 160 | | | | | | | | |
| Bis(2-chloroisopropyl)ether | ND | 160 | | | | | | | | |
| Bis(2-ethylhexyl)phthalate | ND | 330 | | | | | | | | |
| Butyl benzyl phthalate | ND | 160 | | | | | | | | |
| Caprolactam | ND | 330 | | | | | | | | |
| Carbazole | ND | 160 | | | | | | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Batch ID: **46335** Instrument ID **SVMS6** Method: **SW8270**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Chrysene | ND | 30 | | | | | |
| Dibenzo(a,h)anthracene | ND | 30 | | | | | |
| Dibenzofuran | ND | 160 | | | | | |
| Diethyl phthalate | ND | 330 | | | | | |
| Dimethyl phthalate | ND | 330 | | | | | |
| Di-n-butyl phthalate | ND | 330 | | | | | |
| Di-n-octyl phthalate | ND | 160 | | | | | |
| Fluoranthene | ND | 30 | | | | | |
| Fluorene | ND | 30 | | | | | |
| Hexachlorobenzene | ND | 160 | | | | | |
| Hexachlorobutadiene | ND | 160 | | | | | |
| Hexachlorocyclopentadiene | ND | 330 | | | | | |
| Hexachloroethane | ND | 160 | | | | | |
| Indeno(1,2,3-cd)pyrene | ND | 30 | | | | | |
| Isophorone | ND | 160 | | | | | |
| Naphthalene | ND | 30 | | | | | |
| Nitrobenzene | ND | 160 | | | | | |
| N-Nitrosodi-n-propylamine | ND | 160 | | | | | |
| N-Nitrosodiphenylamine | ND | 160 | | | | | |
| Pentachlorophenol | ND | 330 | | | | | |
| Phenanthrene | ND | 30 | | | | | |
| Phenol | ND | 160 | | | | | |
| Pyrene | ND | 30 | | | | | |
| *Surr: 2,4,6-Tribromophenol* | *1187* | 0 | *1667* | 0 | *71.2* | *34-140* | 0 |
| *Surr: 2-Fluorobiphenyl* | *1288* | 0 | *1667* | 0 | *77.3* | *12-100* | 0 |
| *Surr: 2-Fluorophenol* | *1398* | 0 | *1667* | 0 | *83.9* | *33-117* | 0 |
| *Surr: 4-Terphenyl-d14* | *1837* | 0 | *1667* | 0 | *110* | *25-137* | 0 |
| *Surr: Nitrobenzene-d5* | *1367* | 0 | *1667* | 0 | *82* | *37-107* | 0 |
| *Surr: Phenol-d6* | *1504* | 0 | *1667* | 0 | *90.3* | *40-106* | 0 |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302268
**Project:** Rock-Tenn Soil 2/5/13 - 2/6/13

# QC BATCH REPORT

Batch ID: **46335** Instrument ID **SVMS6** Method: **SW8270**

**LCS** Sample ID: **SLCSS1-46335-46335** Units: **µg/Kg** Analysis Date: **2/12/2013 02:22 PM**

Client ID: Run ID: **SVMS6_130212A** SeqNo: **2215027** Prep Date: **2/11/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4,5-Trichlorophenol | 616.7 | 160 | 666.7 | 0 | 92.5 | 50-110 | 0 | | | |
| 2,4,6-Trichlorophenol | 589.3 | 160 | 666.7 | 0 | 88.4 | 45-110 | 0 | | | |
| 2,4-Dichlorophenol | 594.3 | 160 | 666.7 | 0 | 89.1 | 45-110 | 0 | | | |
| 2,4-Dimethylphenol | 260.7 | 330 | 666.7 | 0 | 39.1 | 30-105 | 0 | | | J |
| 2,4-Dinitrophenol | 581.7 | 660 | 666.7 | 0 | 87.2 | 15-130 | 0 | | | J |
| 2,4-Dinitrotoluene | 604.7 | 160 | 666.7 | 0 | 90.7 | 50-115 | 0 | | | |
| 2,6-Dinitrotoluene | 630 | 160 | 666.7 | 0 | 94.5 | 50-110 | 0 | | | |
| 2-Chloronaphthalene | 577.7 | 80 | 666.7 | 0 | 86.6 | 45-105 | 0 | | | |
| 2-Chlorophenol | 594.3 | 160 | 666.7 | 0 | 89.1 | 45-105 | 0 | | | |
| 2-Methylnaphthalene | 580.3 | 80 | 666.7 | 0 | 87 | 45-105 | 0 | | | |
| 2-Methylphenol | 552.7 | 160 | 666.7 | 0 | 82.9 | 40-105 | 0 | | | |
| 2-Nitroaniline | 581.3 | 660 | 666.7 | 0 | 87.2 | 45-120 | 0 | | | J |
| 2-Nitrophenol | 553.7 | 160 | 666.7 | 0 | 83 | 40-110 | 0 | | | |
| 3-Nitroaniline | 577.3 | 660 | 666.7 | 0 | 86.6 | 25-150 | 0 | | | J |
| 4-Bromophenyl phenyl ether | 582.7 | 160 | 666.7 | 0 | 87.4 | 45-115 | 0 | | | |
| 4-Chloro-3-methylphenol | 610 | 160 | 666.7 | 0 | 91.5 | 45-115 | 0 | | | |
| 4-Chloroaniline | 305.3 | 660 | 666.7 | 0 | 45.8 | 15-110 | 0 | | | J |
| 4-Chlorophenyl phenyl ether | 600.3 | 160 | 666.7 | 0 | 90 | 45-110 | 0 | | | |
| 4-Methylphenol | 583.3 | 160 | 666.7 | 0 | 87.5 | 40-105 | 0 | | | |
| 4-Nitroaniline | 400.3 | 660 | 666.7 | 0 | 60 | 35-150 | 0 | | | J |
| 4-Nitrophenol | 574.7 | 660 | 666.7 | 0 | 86.2 | 15-140 | 0 | | | J |
| Acenaphthene | 601 | 30 | 666.7 | 0 | 90.1 | 45-110 | 0 | | | |
| Acenaphthylene | 570.3 | 30 | 666.7 | 0 | 85.5 | 45-105 | 0 | | | |
| Anthracene | 604.7 | 30 | 666.7 | 0 | 90.7 | 55-105 | 0 | | | |
| Benzo(a)anthracene | 606.7 | 30 | 666.7 | 0 | 91 | 50-110 | 0 | | | |
| Benzo(a)pyrene | 642 | 30 | 666.7 | 0 | 96.3 | 50-110 | 0 | | | |
| Benzo(b)fluoranthene | 595 | 30 | 666.7 | 0 | 89.2 | 45-115 | 0 | | | |
| Benzo(g,h,i)perylene | 671.7 | 30 | 666.7 | 0 | 101 | 40-125 | 0 | | | |
| Benzo(k)fluoranthene | 746 | 30 | 666.7 | 0 | 112 | 45-115 | 0 | | | |
| Bis(2-chloroethoxy)methane | 575.3 | 160 | 666.7 | 0 | 86.3 | 45-110 | 0 | | | |
| Bis(2-chloroethyl)ether | 580.3 | 160 | 666.7 | 0 | 87 | 40-105 | 0 | | | |
| Bis(2-chloroisopropyl)ether | 576.7 | 160 | 666.7 | 0 | 86.5 | 20-115 | 0 | | | |
| Bis(2-ethylhexyl)phthalate | 674 | 330 | 666.7 | 0 | 101 | 45-125 | 0 | | | |
| Butyl benzyl phthalate | 661 | 160 | 666.7 | 0 | 99.1 | 50-125 | 0 | | | |
| Carbazole | 609.3 | 160 | 666.7 | 0 | 91.4 | 50-150 | 0 | | | |
| Chrysene | 660 | 30 | 666.7 | 0 | 99 | 55-110 | 0 | | | |
| Dibenzo(a,h)anthracene | 720.3 | 30 | 666.7 | 0 | 108 | 40-125 | 0 | | | |
| Dibenzofuran | 584.7 | 160 | 666.7 | 0 | 87.7 | 50-105 | 0 | | | |
| Diethyl phthalate | 579.7 | 330 | 666.7 | 0 | 86.9 | 50-115 | 0 | | | |
| Dimethyl phthalate | 590.7 | 330 | 666.7 | 0 | 88.6 | 50-110 | 0 | | | |
| Di-n-butyl phthalate | 659.7 | 330 | 666.7 | 0 | 98.9 | 55-110 | 0 | | | |
| Di-n-octyl phthalate | 688.7 | 160 | 666.7 | 0 | 103 | 40-130 | 0 | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

# QC BATCH REPORT

Batch ID: **46335** Instrument ID **SVMS6** Method: **SW8270**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Fluoranthene | 651 | 30 | 666.7 | 0 | 97.6 | 55-115 | 0 |
| Fluorene | 600.7 | 30 | 666.7 | 0 | 90.1 | 50-110 | 0 |
| Hexachlorobenzene | 602.7 | 160 | 666.7 | 0 | 90.4 | 45-120 | 0 |
| Hexachlorobutadiene | 574.7 | 160 | 666.7 | 0 | 86.2 | 40-115 | 0 |
| Hexachlorocyclopentadiene | 570.3 | 330 | 666.7 | 0 | 85.5 | 40-115 | 0 |
| Hexachloroethane | 575.3 | 160 | 666.7 | 0 | 86.3 | 35-110 | 0 |
| Indeno(1,2,3-cd)pyrene | 701 | 30 | 666.7 | 0 | 105 | 40-120 | 0 |
| Isophorone | 582.3 | 160 | 666.7 | 0 | 87.3 | 45-110 | 0 |
| Naphthalene | 567.7 | 30 | 666.7 | 0 | 85.1 | 40-105 | 0 |
| Nitrobenzene | 593.3 | 160 | 666.7 | 0 | 89 | 40-115 | 0 |
| N-Nitrosodi-n-propylamine | 616.7 | 160 | 666.7 | 0 | 92.5 | 40-115 | 0 |
| N-Nitrosodiphenylamine | 610.7 | 160 | 666.7 | 0 | 91.6 | 50-115 | 0 |
| Pentachlorophenol | 662 | 330 | 666.7 | 0 | 99.3 | 25-120 | 0 |
| Phenanthrene | 599.7 | 30 | 666.7 | 0 | 89.9 | 50-110 | 0 |
| Phenol | 570.7 | 160 | 666.7 | 0 | 85.6 | 40-100 | 0 |
| Pyrene | 634.7 | 30 | 666.7 | 0 | 95.2 | 45-125 | 0 |
| *Surr: 2,4,6-Tribromophenol* | *1375* | 0 | *1667* | 0 | *82.5* | *34-140* | 0 |
| *Surr: 2-Fluorobiphenyl* | *1309* | 0 | *1667* | 0 | *78.5* | *12-100* | 0 |
| *Surr: 2-Fluorophenol* | *1421* | 0 | *1667* | 0 | *85.3* | *33-117* | 0 |
| *Surr: 4-Terphenyl-d14* | *1829* | 0 | *1667* | 0 | *110* | *25-137* | 0 |
| *Surr: Nitrobenzene-d5* | *1372* | 0 | *1667* | 0 | *82.3* | *37-107* | 0 |
| *Surr: Phenol-d6* | *1453* | 0 | *1667* | 0 | *87.2* | *40-106* | 0 |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302268
**Project:** Rock-Tenn Soil 2/5/13 - 2/6/13

# QC BATCH REPORT

Batch ID: **46335** Instrument ID **SVMS6** Method: **SW8270**

**MS** Sample ID: **1302268-14B MS** Units: **µg/Kg** Analysis Date: **2/12/2013 02:48 PM**
Client ID: **RT-GB-19 (8-10')** Run ID: **SVMS6_130212A** SeqNo: **2215028** Prep Date: **2/11/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1`-Biphenyl | 1582 | 660 | 1328 | 452.2 | 85.1 | | 0 | | | |
| 2,4,5-Trichlorophenol | 1494 | 320 | 1328 | 0 | 113 | 50-110 | 0 | | | S |
| 2,4,6-Trichlorophenol | 1336 | 320 | 1328 | 0 | 101 | 45-110 | 0 | | | |
| 2,4-Dichlorophenol | 1274 | 320 | 1328 | 0 | 95.9 | 45-110 | 0 | | | |
| 2,4-Dimethylphenol | 1140 | 660 | 1328 | 61.5 | 81.2 | 30-105 | 0 | | | |
| 2,4-Dinitrophenol | 726.2 | 1,300 | 1328 | 0 | 54.7 | 15-130 | 0 | | | J |
| 2,4-Dinitrotoluene | 1514 | 320 | 1328 | 0 | 114 | 50-115 | 0 | | | |
| 2,6-Dinitrotoluene | 1478 | 320 | 1328 | 0 | 111 | 50-110 | 0 | | | S |
| 2-Chloronaphthalene | 1196 | 160 | 1328 | 0 | 90 | 45-105 | 0 | | | |
| 2-Chlorophenol | 1124 | 320 | 1328 | 0 | 84.6 | 45-105 | 0 | | | |
| 2-Methylnaphthalene | 4264 | 160 | 1328 | 3987 | 20.9 | 45-105 | 0 | | | SE |
| 2-Methylphenol | 1222 | 320 | 1328 | 58.54 | 87.6 | 40-105 | 0 | | | |
| 2-Nitroaniline | 1342 | 1,300 | 1328 | 0 | 101 | 45-120 | 0 | | | |
| 2-Nitrophenol | 1046 | 320 | 1328 | 0 | 78.7 | 40-110 | 0 | | | |
| 3-Nitroaniline | 1367 | 1,300 | 1328 | 0 | 103 | 25-110 | 0 | | | |
| 4-Bromophenyl phenyl ether | 1388 | 320 | 1328 | 0 | 105 | 45-115 | 0 | | | |
| 4-Chloro-3-methylphenol | 1427 | 320 | 1328 | 0 | 107 | 45-115 | 0 | | | |
| 4-Chloroaniline | 359.8 | 1,300 | 1328 | 0 | 27.1 | 15-110 | 0 | | | J |
| 4-Chlorophenyl phenyl ether | 1432 | 320 | 1328 | 0 | 108 | 45-110 | 0 | | | |
| 4-Methylphenol | 1243 | 320 | 1328 | 56.24 | 89.4 | 40-105 | 0 | | | |
| 4-Nitroaniline | 697.7 | 1,300 | 1328 | 0 | 52.5 | 35-150 | 0 | | | J |
| 4-Nitrophenol | 1340 | 1,300 | 1328 | 0 | 101 | 15-140 | 0 | | | |
| Acenaphthene | 1270 | 60 | 1328 | 40.12 | 92.6 | 45-110 | 0 | | | |
| Acenaphthylene | 1296 | 60 | 1328 | 63.8 | 92.8 | 45-105 | 0 | | | |
| Anthracene | 1451 | 60 | 1328 | 76.3 | 104 | 55-105 | 0 | | | |
| Benzo(a)anthracene | 1754 | 60 | 1328 | 415.7 | 101 | 50-110 | 0 | | | |
| Benzo(a)pyrene | 1674 | 60 | 1328 | 318.3 | 102 | 50-110 | 0 | | | |
| Benzo(b)fluoranthene | 1954 | 60 | 1328 | 286.8 | 126 | 45-115 | 0 | | | S |
| Benzo(g,h,i)perylene | 802.6 | 60 | 1328 | 152.6 | 49 | 40-125 | 0 | | | |
| Benzo(k)fluoranthene | 1761 | 60 | 1328 | 426.2 | 101 | 45-115 | 0 | | | |
| Bis(2-chloroethoxy)methane | 1107 | 320 | 1328 | 0 | 83.4 | 45-110 | 0 | | | |
| Bis(2-chloroethyl)ether | 1056 | 320 | 1328 | 0 | 79.5 | 40-105 | 0 | | | |
| Bis(2-chloroisopropyl)ether | 1050 | 320 | 1328 | 0 | 79 | 20-115 | 0 | | | |
| Bis(2-ethylhexyl)phthalate | 1454 | 660 | 1328 | 192.1 | 95 | 45-125 | 0 | | | |
| Butyl benzyl phthalate | 1468 | 320 | 1328 | 0 | 111 | 50-125 | 0 | | | |
| Caprolactam | 2290 | 660 | 1328 | 987.2 | 98.1 | | 0 | | | |
| Carbazole | 1470 | 320 | 1328 | 0 | 111 | 50-150 | 0 | | | |
| Chrysene | 1994 | 60 | 1328 | 766.6 | 92.5 | 55-110 | 0 | | | |
| Dibenzo(a,h)anthracene | 839.8 | 60 | 1328 | 43.08 | 60 | 40-125 | 0 | | | |
| Dibenzofuran | 2230 | 320 | 1328 | 1115 | 84.1 | 50-105 | 0 | | | |
| Diethyl phthalate | 1350 | 660 | 1328 | 0 | 102 | 50-115 | 0 | | | |
| Dimethyl phthalate | 1307 | 660 | 1328 | 0 | 98.4 | 50-110 | 0 | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

# QC BATCH REPORT

Batch ID: **46335** Instrument ID **SVMS6** Method: **SW8270**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Di-n-butyl phthalate | 1597 | 660 | 1328 | 1000 | 44.9 | 55-110 | 0 | S |
| Di-n-octyl phthalate | 1816 | 320 | 1328 | 0 | 137 | 40-130 | 0 | S |
| Fluoranthene | 1958 | 60 | 1328 | 494.6 | 110 | 55-115 | 0 | |
| Fluorene | 1482 | 60 | 1328 | 111.8 | 103 | 50-110 | 0 | |
| Hexachlorobenzene | 1411 | 320 | 1328 | 0 | 106 | 45-120 | 0 | |
| Hexachlorobutadiene | 1030 | 320 | 1328 | 0 | 77.6 | 40-115 | 0 | |
| Hexachlorocyclopentadiene | 285.4 | 660 | 1328 | 0 | 21.5 | 40-115 | 0 | JS |
| Hexachloroethane | 1127 | 320 | 1328 | 0 | 84.9 | 35-110 | 0 | |
| Indeno(1,2,3-cd)pyrene | 815.9 | 60 | 1328 | 65.11 | 56.5 | 40-120 | 0 | |
| Isophorone | 1143 | 320 | 1328 | 0 | 86.1 | 45-110 | 0 | |
| Naphthalene | 2775 | 60 | 1328 | 2223 | 41.5 | 40-105 | 0 | |
| Nitrobenzene | 1103 | 320 | 1328 | 0 | 83 | 40-115 | 0 | |
| N-Nitrosodi-n-propylamine | 1223 | 320 | 1328 | 0 | 92.1 | 40-115 | 0 | |
| N-Nitrosodiphenylamine | 1737 | 320 | 1328 | 0 | 131 | 50-115 | 0 | S |
| Pentachlorophenol | 1490 | 660 | 1328 | 0 | 112 | 25-120 | 0 | |
| Phenanthrene | 3339 | 60 | 1328 | 2255 | 81.6 | 50-110 | 0 | |
| Phenol | 1174 | 320 | 1328 | 0 | 88.4 | 40-100 | 0 | |
| Pyrene | 1955 | 60 | 1328 | 807 | 86.5 | 45-125 | 0 | |
| *Surr: 2,4,6-Tribromophenol* | *3176* | 0 | *3319* | 0 | *95.7* | *34-140* | 0 | |
| *Surr: 2-Fluorobiphenyl* | *2392* | 0 | *3319* | 0 | *72.1* | *12-100* | 0 | |
| *Surr: 2-Fluorophenol* | *2441* | 0 | *3319* | 0 | *73.5* | *33-117* | 0 | |
| *Surr: 4-Terphenyl-d14* | *3432* | 0 | *3319* | 0 | *103* | *25-137* | 0 | |
| *Surr: Nitrobenzene-d5* | *2312* | 0 | *3319* | 0 | *69.7* | *37-107* | 0 | |
| *Surr: Phenol-d6* | *2617* | 0 | *3319* | 0 | *78.8* | *40-106* | 0 | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302268
**Project:** Rock-Tenn Soil 2/5/13 - 2/6/13

# QC BATCH REPORT

Batch ID: **46335** Instrument ID **SVMS6** Method: **SW8270**

**MSD** Sample ID: **1302268-14B MSD** Units: **µg/Kg** Analysis Date: **2/12/2013 03:14 PM**

Client ID: **RT-GB-19 (8-10')** Run ID: **SVMS6_130212A** SeqNo: **2215029** Prep Date: **2/11/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1`-Biphenyl | 1476 | 640 | 1297 | 452.2 | 78.9 | | 1582 | 6.93 | | |
| 2,4,5-Trichlorophenol | 1319 | 310 | 1297 | 0 | 102 | 50-110 | 1494 | 12.5 | 30 | |
| 2,4,6-Trichlorophenol | 1220 | 310 | 1297 | 0 | 94.1 | 45-110 | 1336 | 9.01 | 30 | |
| 2,4-Dichlorophenol | 1191 | 310 | 1297 | 0 | 91.8 | 45-110 | 1274 | 6.7 | 30 | |
| 2,4-Dimethylphenol | 1060 | 640 | 1297 | 61.5 | 77 | 30-105 | 1140 | 7.29 | 30 | |
| 2,4-Dinitrophenol | 430 | 1,300 | 1297 | 0 | 33.1 | 15-130 | 726.2 | 0 | 30 | J |
| 2,4-Dinitrotoluene | 1359 | 310 | 1297 | 0 | 105 | 50-115 | 1514 | 10.8 | 30 | |
| 2,6-Dinitrotoluene | 1327 | 310 | 1297 | 0 | 102 | 50-110 | 1478 | 10.7 | 30 | |
| 2-Chloronaphthalene | 1131 | 160 | 1297 | 0 | 87.2 | 45-105 | 1196 | 5.55 | 30 | |
| 2-Chlorophenol | 1126 | 310 | 1297 | 0 | 86.8 | 45-105 | 1124 | 0.172 | 30 | |
| 2-Methylnaphthalene | 4106 | 160 | 1297 | 3987 | 9.14 | 45-105 | 4264 | 3.79 | 30 | SE |
| 2-Methylphenol | 1171 | 310 | 1297 | 58.54 | 85.7 | 40-105 | 1222 | 4.31 | 30 | |
| 2-Nitroaniline | 1202 | 1,300 | 1297 | 0 | 92.7 | 45-120 | 1342 | 0 | 30 | J |
| 2-Nitrophenol | 1035 | 310 | 1297 | 0 | 79.8 | 40-110 | 1046 | 1.01 | 30 | |
| 3-Nitroaniline | 1268 | 1,300 | 1297 | 0 | 97.8 | 25-110 | 1367 | 0 | 30 | J |
| 4-Bromophenyl phenyl ether | 1263 | 310 | 1297 | 0 | 97.4 | 45-115 | 1388 | 9.41 | 30 | |
| 4-Chloro-3-methylphenol | 1269 | 310 | 1297 | 0 | 97.8 | 45-115 | 1427 | 11.7 | 30 | |
| 4-Chloroaniline | 367.1 | 1,300 | 1297 | 0 | 28.3 | 15-110 | 359.8 | 0 | 30 | J |
| 4-Chlorophenyl phenyl ether | 1287 | 310 | 1297 | 0 | 99.2 | 45-110 | 1432 | 10.7 | 30 | |
| 4-Methylphenol | 1185 | 310 | 1297 | 56.24 | 87 | 40-105 | 1243 | 4.82 | 30 | |
| 4-Nitroaniline | 524 | 1,300 | 1297 | 0 | 40.4 | 35-150 | 697.7 | 0 | 30 | J |
| 4-Nitrophenol | 1401 | 1,300 | 1297 | 0 | 108 | 15-140 | 1340 | 4.41 | 30 | |
| Acenaphthene | 1184 | 58 | 1297 | 40.12 | 88.2 | 45-110 | 1270 | 6.99 | 30 | |
| Acenaphthylene | 1195 | 58 | 1297 | 63.8 | 87.2 | 45-105 | 1296 | 8.13 | 30 | |
| Anthracene | 1412 | 58 | 1297 | 76.3 | 103 | 55-105 | 1451 | 2.7 | 30 | |
| Benzo(a)anthracene | 1623 | 58 | 1297 | 415.7 | 93.1 | 50-110 | 1754 | 7.74 | 30 | |
| Benzo(a)pyrene | 1506 | 58 | 1297 | 318.3 | 91.6 | 50-110 | 1674 | 10.5 | 30 | |
| Benzo(b)fluoranthene | 1743 | 58 | 1297 | 286.8 | 112 | 45-115 | 1954 | 11.4 | 30 | |
| Benzo(g,h,i)perylene | 693.9 | 58 | 1297 | 152.6 | 41.7 | 40-125 | 802.6 | 14.5 | 30 | |
| Benzo(k)fluoranthene | 1675 | 58 | 1297 | 426.2 | 96.3 | 45-115 | 1761 | 5.01 | 30 | |
| Bis(2-chloroethoxy)methane | 1146 | 310 | 1297 | 0 | 88.3 | 45-110 | 1107 | 3.43 | 30 | |
| Bis(2-chloroethyl)ether | 1077 | 310 | 1297 | 0 | 83 | 40-105 | 1056 | 1.97 | 30 | |
| Bis(2-chloroisopropyl)ether | 1057 | 310 | 1297 | 0 | 81.5 | 20-115 | 1050 | 0.716 | 30 | |
| Bis(2-ethylhexyl)phthalate | 1337 | 640 | 1297 | 192.1 | 88.2 | 45-125 | 1454 | 8.4 | 30 | |
| Butyl benzyl phthalate | 1339 | 310 | 1297 | 0 | 103 | 50-125 | 1468 | 9.25 | 30 | |
| Caprolactam | 2014 | 640 | 1297 | 987.2 | 79.1 | | 2290 | 12.9 | | |
| Carbazole | 1300 | 310 | 1297 | 0 | 100 | 50-150 | 1470 | 12.2 | 30 | |
| Chrysene | 1783 | 58 | 1297 | 766.6 | 78.3 | 55-110 | 1994 | 11.2 | 30 | |
| Dibenzo(a,h)anthracene | 730.9 | 58 | 1297 | 43.08 | 53 | 40-125 | 839.8 | 13.9 | 30 | |
| Dibenzofuran | 2073 | 310 | 1297 | 1115 | 73.9 | 50-105 | 2230 | 7.31 | 30 | |
| Diethyl phthalate | 1209 | 640 | 1297 | 0 | 93.2 | 50-115 | 1350 | 10.9 | 30 | |
| Dimethyl phthalate | 1184 | 640 | 1297 | 0 | 91.3 | 50-110 | 1307 | 9.87 | 30 | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302268
**Project:** Rock-Tenn Soil 2/5/13 - 2/6/13

# QC BATCH REPORT

Batch ID: **46335** Instrument ID **SVMS6** Method: **SW8270**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Di-n-butyl phthalate | 1366 | 640 | 1297 | 1000 | 28.2 | 55-110 | 1597 | 15.6 | 30 | S |
| Di-n-octyl phthalate | 1752 | 310 | 1297 | 0 | 135 | 40-130 | 1816 | 3.59 | 30 | S |
| Fluoranthene | 1985 | 58 | 1297 | 494.6 | 115 | 55-115 | 1958 | 1.36 | 30 | |
| Fluorene | 1375 | 58 | 1297 | 111.8 | 97.4 | 50-110 | 1482 | 7.48 | 30 | |
| Hexachlorobenzene | 1271 | 310 | 1297 | 0 | 98 | 45-120 | 1411 | 10.4 | 30 | |
| Hexachlorobutadiene | 1034 | 310 | 1297 | 0 | 79.7 | 40-115 | 1030 | 0.397 | 30 | |
| Hexachlorocyclopentadiene | 182.9 | 640 | 1297 | 0 | 14.1 | 40-115 | 285.4 | 0 | 30 | JS |
| Hexachloroethane | 1109 | 310 | 1297 | 0 | 85.5 | 35-110 | 1127 | 1.63 | 30 | |
| Indeno(1,2,3-cd)pyrene | 708.2 | 58 | 1297 | 65.11 | 49.6 | 40-120 | 815.9 | 14.1 | 30 | |
| Isophorone | 1099 | 310 | 1297 | 0 | 84.7 | 45-110 | 1143 | 3.92 | 30 | |
| Naphthalene | 2768 | 58 | 1297 | 2223 | 42 | 40-105 | 2775 | 0.229 | 30 | |
| Nitrobenzene | 1122 | 310 | 1297 | 0 | 86.5 | 40-115 | 1103 | 1.73 | 30 | |
| N-Nitrosodi-n-propylamine | 1207 | 310 | 1297 | 0 | 93 | 40-115 | 1223 | 1.36 | 30 | |
| N-Nitrosodiphenylamine | 1567 | 310 | 1297 | 0 | 121 | 50-115 | 1737 | 10.2 | 30 | S |
| Pentachlorophenol | 1278 | 640 | 1297 | 0 | 98.5 | 25-120 | 1490 | 15.3 | 30 | |
| Phenanthrene | 3291 | 58 | 1297 | 2255 | 79.9 | 50-110 | 3339 | 1.45 | 30 | |
| Phenol | 1147 | 310 | 1297 | 0 | 88.4 | 40-100 | 1174 | 2.34 | 30 | |
| Pyrene | 1931 | 58 | 1297 | 807 | 86.6 | 45-125 | 1955 | 1.26 | 30 | |
| *Surr: 2,4,6-Tribromophenol* | *3105* | 0 | *3243* | 0 | *95.8* | *34-140* | 3176 | *2.25* | *40* | |
| *Surr: 2-Fluorobiphenyl* | *2454* | 0 | *3243* | 0 | *75.7* | *12-100* | 2392 | *2.57* | *40* | |
| *Surr: 2-Fluorophenol* | *2641* | 0 | *3243* | 0 | *81.4* | *33-117* | 2441 | *7.86* | *40* | |
| *Surr: 4-Terphenyl-d14* | *3399* | 0 | *3243* | 0 | *105* | *25-137* | 3432 | *0.972* | *40* | |
| *Surr: Nitrobenzene-d5* | *2463* | 0 | *3243* | 0 | *76* | *37-107* | 2312 | *6.32* | *40* | |
| *Surr: Phenol-d6* | *2756* | 0 | *3243* | 0 | *85* | *40-106* | 2617 | *5.16* | *40* | |

**The following samples were analyzed in this batch:**

| | | |
|---|---|---|
| 1302268-01B | 1302268-02B | 1302268-03B |
| 1302268-04B | 1302268-05B | 1302268-06B |
| 1302268-07B | 1302268-08B | 1302268-09B |
| 1302268-10B | 1302268-11B | 1302268-12B |
| 1302268-13B | 1302268-14B | 1302268-15B |
| 1302268-16B | 1302268-17B | 1302268-18B |
| 1302268-19B | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302268
**Project:** Rock-Tenn Soil 2/5/13 - 2/6/13

# QC BATCH REPORT

Batch ID: **46326** Instrument ID **VMS9** Method: **SW8260**

**MBLK** Sample ID: **MBLK-46326-46326** Units: **µg/Kg** Analysis Date: **2/8/2013 12:11 PM**

Client ID: Run ID: **VMS9_130208A** SeqNo: **2212202** Prep Date: **2/8/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 30 | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 30 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 30 | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 30 | | | | | | | | |
| 1,1-Dichloroethane | ND | 30 | | | | | | | | |
| 1,1-Dichloroethene | ND | 30 | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 30 | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 30 | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 30 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 30 | | | | | | | | |
| 1,2-Dibromoethane | ND | 30 | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 30 | | | | | | | | |
| 1,2-Dichloroethane | ND | 30 | | | | | | | | |
| 1,2-Dichloropropane | ND | 30 | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 30 | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 30 | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 30 | | | | | | | | |
| 2-Butanone | ND | 200 | | | | | | | | |
| 2-Hexanone | ND | 30 | | | | | | | | |
| 2-Methylnaphthalene | ND | 100 | | | | | | | | |
| 4-Methyl-2-pentanone | ND | 30 | | | | | | | | |
| Acetone | 69 | 100 | | | | | | | | J |
| Acrylonitrile | ND | 100 | | | | | | | | |
| Benzene | ND | 30 | | | | | | | | |
| Bromochloromethane | ND | 30 | | | | | | | | |
| Bromodichloromethane | ND | 30 | | | | | | | | |
| Bromomethane | ND | 75 | | | | | | | | |
| Carbon disulfide | ND | 30 | | | | | | | | |
| Carbon tetrachloride | ND | 30 | | | | | | | | |
| Chlorobenzene | ND | 30 | | | | | | | | |
| Chloroethane | ND | 100 | | | | | | | | |
| Chloroform | ND | 30 | | | | | | | | |
| Chloromethane | ND | 100 | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 30 | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 30 | | | | | | | | |
| Dibromochloromethane | ND | 30 | | | | | | | | |
| Dibromomethane | ND | 30 | | | | | | | | |
| Dichlorodifluoromethane | ND | 30 | | | | | | | | |
| Diethyl ether | ND | 30 | | | | | | | | |
| Ethylbenzene | ND | 30 | | | | | | | | |
| Hexachloroethane | ND | 30 | | | | | | | | |
| Isopropylbenzene | ND | 30 | | | | | | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Batch ID: **46326** Instrument ID **VMS9** Method: **SW8260**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| m,p-Xylene | ND | 60 | | | | | | |
| Methyl iodide | ND | 75 | | | | | | |
| Methyl tert-butyl ether | ND | 30 | | | | | | |
| Methylene chloride | ND | 30 | | | | | | |
| Naphthalene | 18 | 100 | | | | | | J |
| n-Propylbenzene | ND | 30 | | | | | | |
| o-Xylene | ND | 30 | | | | | | |
| Styrene | ND | 30 | | | | | | |
| Tetrachloroethene | ND | 30 | | | | | | |
| Toluene | ND | 30 | | | | | | |
| trans-1,2-Dichloroethene | ND | 30 | | | | | | |
| trans-1,3-Dichloropropene | ND | 30 | | | | | | |
| trans-1,4-Dichloro-2-butene | ND | 30 | | | | | | |
| Trichloroethene | ND | 30 | | | | | | |
| Trichlorofluoromethane | ND | 30 | | | | | | |
| Vinyl acetate | ND | 30 | | | | | | |
| Vinyl chloride | ND | 30 | | | | | | |
| 1,2-Dichloroethene, Total | ND | 60 | | | | | | |
| 1,3-Dichloropropene, Total | ND | 60 | | | | | | |
| Xylenes, Total | ND | 90 | | | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *1020* | 0 | *1000* | 0 | *102* | *70-130* | 0 | |
| *Surr: 4-Bromofluorobenzene* | *930.5* | 0 | *1000* | 0 | *93* | *70-130* | 0 | |
| *Surr: Dibromofluoromethane* | *1038* | 0 | *1000* | 0 | *104* | *70-130* | 0 | |
| *Surr: Toluene-d8* | *931.5* | 0 | *1000* | 0 | *93.2* | *70-130* | 0 | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302268
**Project:** Rock-Tenn Soil 2/5/13 - 2/6/13

# QC BATCH REPORT

Batch ID: **46326** Instrument ID **VMS9** Method: **SW8260**

**MBLK** Sample ID: **MBLK-46326-46326** Units: **µg/Kg** Analysis Date: **2/8/2013 03:33 PM**
Client ID: Run ID: **VMS7_130208A** SeqNo: **2212283** Prep Date: **2/8/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 30 | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 30 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 30 | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 30 | | | | | | | | |
| 1,1-Dichloroethane | ND | 30 | | | | | | | | |
| 1,1-Dichloroethene | ND | 30 | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 30 | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 30 | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 30 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 30 | | | | | | | | |
| 1,2-Dibromoethane | ND | 30 | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 30 | | | | | | | | |
| 1,2-Dichloroethane | ND | 30 | | | | | | | | |
| 1,2-Dichloropropane | ND | 30 | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 30 | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 30 | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 30 | | | | | | | | |
| 2-Butanone | ND | 200 | | | | | | | | |
| 2-Hexanone | ND | 30 | | | | | | | | |
| 2-Methylnaphthalene | ND | 100 | | | | | | | | |
| 4-Methyl-2-pentanone | ND | 30 | | | | | | | | |
| Acetone | ND | 100 | | | | | | | | |
| Acrylonitrile | ND | 100 | | | | | | | | |
| Benzene | ND | 30 | | | | | | | | |
| Bromochloromethane | ND | 30 | | | | | | | | |
| Bromodichloromethane | ND | 30 | | | | | | | | |
| Bromomethane | ND | 75 | | | | | | | | |
| Carbon disulfide | ND | 30 | | | | | | | | |
| Carbon tetrachloride | ND | 30 | | | | | | | | |
| Chlorobenzene | ND | 30 | | | | | | | | |
| Chloroethane | ND | 100 | | | | | | | | |
| Chloroform | ND | 30 | | | | | | | | |
| Chloromethane | ND | 100 | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 30 | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 30 | | | | | | | | |
| Dibromochloromethane | ND | 30 | | | | | | | | |
| Dibromomethane | ND | 30 | | | | | | | | |
| Dichlorodifluoromethane | ND | 30 | | | | | | | | |
| Diethyl ether | ND | 30 | | | | | | | | |
| Ethylbenzene | ND | 30 | | | | | | | | |
| Hexachloroethane | ND | 30 | | | | | | | | |
| Isopropylbenzene | ND | 30 | | | | | | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

# QC BATCH REPORT

Batch ID: **46326** Instrument ID **VMS9** Method: **SW8260**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| m,p-Xylene | ND | 60 | | | | | |
| Methyl iodide | ND | 75 | | | | | |
| Methyl tert-butyl ether | ND | 30 | | | | | |
| Methylene chloride | ND | 30 | | | | | |
| Naphthalene | ND | 100 | | | | | |
| n-Propylbenzene | ND | 30 | | | | | |
| o-Xylene | ND | 30 | | | | | |
| Styrene | ND | 30 | | | | | |
| Tetrachloroethene | ND | 30 | | | | | |
| Toluene | ND | 30 | | | | | |
| trans-1,2-Dichloroethene | ND | 30 | | | | | |
| trans-1,3-Dichloropropene | ND | 30 | | | | | |
| trans-1,4-Dichloro-2-butene | ND | 30 | | | | | |
| Trichloroethene | ND | 30 | | | | | |
| Trichlorofluoromethane | ND | 30 | | | | | |
| Vinyl acetate | ND | 30 | | | | | |
| Vinyl chloride | ND | 30 | | | | | |
| 1,2-Dichloroethene, Total | ND | 60 | | | | | |
| 1,3-Dichloropropene, Total | ND | 60 | | | | | |
| Xylenes, Total | ND | 90 | | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *874.5* | 0 | *1000* | 0 | *87.4* | *70-130* | 0 |
| *Surr: 4-Bromofluorobenzene* | *1006* | 0 | *1000* | 0 | *101* | *70-130* | 0 |
| *Surr: Dibromofluoromethane* | *858.5* | 0 | *1000* | 0 | *85.8* | *70-130* | 0 |
| *Surr: Toluene-d8* | *857* | 0 | *1000* | 0 | *85.7* | *70-130* | 0 |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302268
**Project:** Rock-Tenn Soil 2/5/13 - 2/6/13

# QC BATCH REPORT

Batch ID: **46326** Instrument ID **VMS9** Method: **SW8260**

**MBLK** Sample ID: **MBLK-46326-46326** Units: **µg/Kg** Analysis Date: **2/9/2013 04:19 AM**
Client ID: Run ID: **VMS7_130208B** SeqNo: **2212427** Prep Date: **2/8/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 30 | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 30 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 30 | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 30 | | | | | | | | |
| 1,1-Dichloroethane | ND | 30 | | | | | | | | |
| 1,1-Dichloroethene | ND | 30 | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 30 | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 30 | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 30 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 30 | | | | | | | | |
| 1,2-Dibromoethane | ND | 30 | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 30 | | | | | | | | |
| 1,2-Dichloroethane | ND | 30 | | | | | | | | |
| 1,2-Dichloropropane | ND | 30 | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 30 | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 30 | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 30 | | | | | | | | |
| 2-Butanone | ND | 200 | | | | | | | | |
| 2-Hexanone | ND | 30 | | | | | | | | |
| 2-Methylnaphthalene | ND | 100 | | | | | | | | |
| 4-Methyl-2-pentanone | ND | 30 | | | | | | | | |
| Acetone | ND | 100 | | | | | | | | |
| Acrylonitrile | ND | 100 | | | | | | | | |
| Benzene | ND | 30 | | | | | | | | |
| Bromochloromethane | ND | 30 | | | | | | | | |
| Bromodichloromethane | ND | 30 | | | | | | | | |
| Bromomethane | ND | 75 | | | | | | | | |
| Carbon disulfide | ND | 30 | | | | | | | | |
| Carbon tetrachloride | ND | 30 | | | | | | | | |
| Chlorobenzene | ND | 30 | | | | | | | | |
| Chloroethane | ND | 100 | | | | | | | | |
| Chloroform | ND | 30 | | | | | | | | |
| Chloromethane | ND | 100 | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 30 | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 30 | | | | | | | | |
| Dibromochloromethane | ND | 30 | | | | | | | | |
| Dibromomethane | ND | 30 | | | | | | | | |
| Dichlorodifluoromethane | ND | 30 | | | | | | | | |
| Diethyl ether | ND | 30 | | | | | | | | |
| Ethylbenzene | ND | 30 | | | | | | | | |
| Hexachloroethane | ND | 30 | | | | | | | | |
| Isopropylbenzene | ND | 30 | | | | | | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Batch ID: **46326** Instrument ID **VMS9** Method: **SW8260**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| m,p-Xylene | ND | 60 | | | | | |
| Methyl iodide | ND | 75 | | | | | |
| Methyl tert-butyl ether | ND | 30 | | | | | |
| Methylene chloride | ND | 30 | | | | | |
| Naphthalene | ND | 100 | | | | | |
| n-Propylbenzene | ND | 30 | | | | | |
| o-Xylene | ND | 30 | | | | | |
| Styrene | ND | 30 | | | | | |
| Tetrachloroethene | ND | 30 | | | | | |
| Toluene | ND | 30 | | | | | |
| trans-1,2-Dichloroethene | ND | 30 | | | | | |
| trans-1,3-Dichloropropene | ND | 30 | | | | | |
| trans-1,4-Dichloro-2-butene | ND | 30 | | | | | |
| Trichloroethene | ND | 30 | | | | | |
| Trichlorofluoromethane | ND | 30 | | | | | |
| Vinyl acetate | ND | 30 | | | | | |
| Vinyl chloride | ND | 30 | | | | | |
| 1,2-Dichloroethene, Total | ND | 60 | | | | | |
| 1,3-Dichloropropene, Total | ND | 60 | | | | | |
| Xylenes, Total | ND | 90 | | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *907.5* | 0 | *1000* | 0 | *90.8* | *70-130* | 0 |
| *Surr: 4-Bromofluorobenzene* | *1118* | 0 | *1000* | 0 | *112* | *70-130* | 0 |
| *Surr: Dibromofluoromethane* | *913* | 0 | *1000* | 0 | *91.3* | *70-130* | 0 |
| *Surr: Toluene-d8* | *896.5* | 0 | *1000* | 0 | *89.6* | *70-130* | 0 |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302268
**Project:** Rock-Tenn Soil 2/5/13 - 2/6/13

# QC BATCH REPORT

Batch ID: **46326** Instrument ID **VMS9** Method: **SW8260**

**LCS** Sample ID: **LCS-46326-46326** Units: **µg/Kg** Analysis Date: **2/8/2013 10:54 AM**
Client ID: Run ID: **VMS9_130208A** SeqNo: **2212200** Prep Date: **2/8/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 846.5 | 30 | 1000 | 0 | 84.6 | 75-125 | 0 | | | |
| 1,1,1-Trichloroethane | 928.5 | 30 | 1000 | 0 | 92.8 | 70-135 | 0 | | | |
| 1,1,2,2-Tetrachloroethane | 842.5 | 30 | 1000 | 0 | 84.2 | 55-130 | 0 | | | |
| 1,1,2-Trichloroethane | 856.5 | 30 | 1000 | 0 | 85.6 | 60-125 | 0 | | | |
| 1,1-Dichloroethane | 916.5 | 30 | 1000 | 0 | 91.6 | 75-125 | 0 | | | |
| 1,1-Dichloroethene | 924 | 30 | 1000 | 0 | 92.4 | 65-135 | 0 | | | |
| 1,2,3-Trichloropropane | 820.5 | 30 | 1000 | 0 | 82 | 65-130 | 0 | | | |
| 1,2,4-Trichlorobenzene | 921 | 30 | 1000 | 0 | 92.1 | 65-130 | 0 | | | |
| 1,2,4-Trimethylbenzene | 925 | 30 | 1000 | 0 | 92.5 | 65-135 | 0 | | | |
| 1,2-Dibromo-3-chloropropane | 843.5 | 30 | 1000 | 0 | 84.4 | 40-135 | 0 | | | |
| 1,2-Dibromoethane | 919 | 30 | 1000 | 0 | 91.9 | 70-125 | 0 | | | |
| 1,2-Dichlorobenzene | 863 | 30 | 1000 | 0 | 86.3 | 75-120 | 0 | | | |
| 1,2-Dichloroethane | 839.5 | 30 | 1000 | 0 | 84 | 70-135 | 0 | | | |
| 1,2-Dichloropropane | 861.5 | 30 | 1000 | 0 | 86.2 | 70-120 | 0 | | | |
| 1,3,5-Trimethylbenzene | 986.5 | 30 | 1000 | 0 | 98.6 | 65-135 | 0 | | | |
| 1,3-Dichlorobenzene | 863 | 30 | 1000 | 0 | 86.3 | 70-125 | 0 | | | |
| 1,4-Dichlorobenzene | 866 | 30 | 1000 | 0 | 86.6 | 70-125 | 0 | | | |
| 2-Butanone | 1025 | 200 | 1000 | 0 | 102 | 30-160 | 0 | | | |
| 2-Hexanone | 865 | 30 | 1000 | 0 | 86.5 | 45-145 | 0 | | | |
| 4-Methyl-2-pentanone | 1104 | 30 | 1000 | 0 | 110 | 45-145 | 0 | | | |
| Acetone | 926 | 100 | 1000 | 0 | 92.6 | 20-160 | 0 | | | |
| Acrylonitrile | 925.5 | 100 | 1000 | 0 | 92.6 | 70-135 | 0 | | | |
| Benzene | 860.5 | 30 | 1000 | 0 | 86 | 75-125 | 0 | | | |
| Bromochloromethane | 956 | 30 | 1000 | 0 | 95.6 | 70-125 | 0 | | | |
| Bromodichloromethane | 882.5 | 30 | 1000 | 0 | 88.2 | 70-130 | 0 | | | |
| Bromomethane | 931 | 75 | 1000 | 0 | 93.1 | 30-160 | 0 | | | |
| Carbon disulfide | 1009 | 30 | 1000 | 0 | 101 | 45-160 | 0 | | | |
| Carbon tetrachloride | 578 | 30 | 1000 | 0 | 57.8 | 65-135 | 0 | | | S |
| Chlorobenzene | 882.5 | 30 | 1000 | 0 | 88.2 | 75-125 | 0 | | | |
| Chloroethane | 909 | 100 | 1000 | 0 | 90.9 | 40-155 | 0 | | | |
| Chloroform | 979.5 | 30 | 1000 | 0 | 98 | 70-125 | 0 | | | |
| Chloromethane | 869.5 | 100 | 1000 | 0 | 87 | 50-130 | 0 | | | |
| cis-1,2-Dichloroethene | 904.5 | 30 | 1000 | 0 | 90.4 | 65-125 | 0 | | | |
| cis-1,3-Dichloropropene | 875.5 | 30 | 1000 | 0 | 87.6 | 70-125 | 0 | | | |
| Dibromochloromethane | 824.5 | 30 | 1000 | 0 | 82.4 | 65-135 | 0 | | | |
| Dibromomethane | 905 | 30 | 1000 | 0 | 90.5 | 75-130 | 0 | | | |
| Dichlorodifluoromethane | 683.5 | 30 | 1000 | 0 | 68.4 | 35-135 | 0 | | | |
| Ethylbenzene | 904 | 30 | 1000 | 0 | 90.4 | 75-125 | 0 | | | |
| Hexachloroethane | 886 | 30 | 1000 | 0 | 88.6 | 70-135 | 0 | | | |
| Isopropylbenzene | 965 | 30 | 1000 | 0 | 96.5 | 75-130 | 0 | | | |
| m,p-Xylene | 1895 | 60 | 2000 | 0 | 94.8 | 80-125 | 0 | | | |
| Methyl tert-butyl ether | 1032 | 30 | 1000 | 0 | 103 | 75-125 | 0 | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

# QC BATCH REPORT

Batch ID: **46326** Instrument ID **VMS9** Method: **SW8260**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Methylene chloride | 996 | 30 | 1000 | 0 | 99.6 | 55-145 | 0 |
| Naphthalene | 857 | 100 | 1000 | 0 | 85.7 | 40-140 | 0 |
| n-Propylbenzene | 925 | 30 | 1000 | 0 | 92.5 | 65-135 | 0 |
| o-Xylene | 913.5 | 30 | 1000 | 0 | 91.4 | 75-125 | 0 |
| Styrene | 971.5 | 30 | 1000 | 0 | 97.2 | 75-125 | 0 |
| Tetrachloroethene | 882.5 | 30 | 1000 | 0 | 88.2 | 64-140 | 0 |
| Toluene | 879 | 30 | 1000 | 0 | 87.9 | 70-125 | 0 |
| trans-1,2-Dichloroethene | 919 | 30 | 1000 | 0 | 91.9 | 65-135 | 0 |
| trans-1,3-Dichloropropene | 870.5 | 30 | 1000 | 0 | 87 | 65-125 | 0 |
| trans-1,4-Dichloro-2-butene | 771 | 30 | 1000 | 0 | 77.1 | 70-135 | 0 |
| Trichloroethene | 843 | 30 | 1000 | 0 | 84.3 | 75-125 | 0 |
| Trichlorofluoromethane | 993 | 30 | 1000 | 0 | 99.3 | 25-185 | 0 |
| Vinyl chloride | 945.5 | 30 | 1000 | 0 | 94.6 | 60-125 | 0 |
| Xylenes, Total | 2808 | 90 | 3000 | 0 | 93.6 | 75-125 | 0 |
| *Surr: 1,2-Dichloroethane-d4* | *989* | 0 | *1000* | 0 | *98.9* | *70-130* | 0 |
| *Surr: 4-Bromofluorobenzene* | *991* | 0 | *1000* | 0 | *99.1* | *70-130* | 0 |
| *Surr: Dibromofluoromethane* | *1047* | 0 | *1000* | 0 | *105* | *70-130* | 0 |
| *Surr: Toluene-d8* | *981.5* | 0 | *1000* | 0 | *98.2* | *70-130* | 0 |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302268
**Project:** Rock-Tenn Soil 2/5/13 - 2/6/13

# QC BATCH REPORT

Batch ID: **46326** Instrument ID **VMS9** Method: **SW8260**

**LCS** Sample ID: **LCS-46326-46326** Units: **µg/Kg** Analysis Date: **2/8/2013 02:18 PM**
Client ID: Run ID: **VMS7_130208A** SeqNo: **2212282** Prep Date: **2/8/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 948.5 | 30 | 1000 | 0 | 94.8 | 75-125 | 0 | | | |
| 1,1,1-Trichloroethane | 1030 | 30 | 1000 | 0 | 103 | 70-135 | 0 | | | |
| 1,1,2,2-Tetrachloroethane | 919 | 30 | 1000 | 0 | 91.9 | 55-130 | 0 | | | |
| 1,1,2-Trichloroethane | 864 | 30 | 1000 | 0 | 86.4 | 60-125 | 0 | | | |
| 1,1-Dichloroethane | 961 | 30 | 1000 | 0 | 96.1 | 75-125 | 0 | | | |
| 1,1-Dichloroethene | 1060 | 30 | 1000 | 0 | 106 | 65-135 | 0 | | | |
| 1,2,3-Trichloropropane | 938.5 | 30 | 1000 | 0 | 93.8 | 65-130 | 0 | | | |
| 1,2,4-Trichlorobenzene | 1006 | 30 | 1000 | 0 | 101 | 65-130 | 0 | | | |
| 1,2,4-Trimethylbenzene | 967.5 | 30 | 1000 | 0 | 96.8 | 65-135 | 0 | | | |
| 1,2-Dibromo-3-chloropropane | 878.5 | 30 | 1000 | 0 | 87.8 | 40-135 | 0 | | | |
| 1,2-Dibromoethane | 941 | 30 | 1000 | 0 | 94.1 | 70-125 | 0 | | | |
| 1,2-Dichlorobenzene | 960.5 | 30 | 1000 | 0 | 96 | 75-120 | 0 | | | |
| 1,2-Dichloroethane | 967.5 | 30 | 1000 | 0 | 96.8 | 70-135 | 0 | | | |
| 1,2-Dichloropropane | 940.5 | 30 | 1000 | 0 | 94 | 70-120 | 0 | | | |
| 1,3,5-Trimethylbenzene | 973.5 | 30 | 1000 | 0 | 97.4 | 65-135 | 0 | | | |
| 1,3-Dichlorobenzene | 963.5 | 30 | 1000 | 0 | 96.4 | 70-125 | 0 | | | |
| 1,4-Dichlorobenzene | 947 | 30 | 1000 | 0 | 94.7 | 70-125 | 0 | | | |
| 2-Butanone | 1028 | 200 | 1000 | 0 | 103 | 30-160 | 0 | | | |
| 2-Hexanone | 941.5 | 30 | 1000 | 0 | 94.2 | 45-145 | 0 | | | |
| 4-Methyl-2-pentanone | 1202 | 30 | 1000 | 0 | 120 | 45-145 | 0 | | | |
| Acetone | 966 | 100 | 1000 | 0 | 96.6 | 20-160 | 0 | | | |
| Acrylonitrile | 965.5 | 100 | 1000 | 0 | 96.6 | 70-135 | 0 | | | |
| Benzene | 969 | 30 | 1000 | 0 | 96.9 | 75-125 | 0 | | | |
| Bromochloromethane | 969 | 30 | 1000 | 0 | 96.9 | 70-125 | 0 | | | |
| Bromodichloromethane | 954.5 | 30 | 1000 | 0 | 95.4 | 70-130 | 0 | | | |
| Bromomethane | 1002 | 75 | 1000 | 0 | 100 | 30-160 | 0 | | | |
| Carbon disulfide | 1068 | 30 | 1000 | 0 | 107 | 45-160 | 0 | | | |
| Carbon tetrachloride | 1112 | 30 | 1000 | 0 | 111 | 65-135 | 0 | | | |
| Chlorobenzene | 936 | 30 | 1000 | 0 | 93.6 | 75-125 | 0 | | | |
| Chloroethane | 867.5 | 100 | 1000 | 0 | 86.8 | 40-155 | 0 | | | |
| Chloroform | 951.5 | 30 | 1000 | 0 | 95.2 | 70-125 | 0 | | | |
| Chloromethane | 842 | 100 | 1000 | 0 | 84.2 | 50-130 | 0 | | | |
| cis-1,2-Dichloroethene | 964.5 | 30 | 1000 | 0 | 96.4 | 65-125 | 0 | | | |
| cis-1,3-Dichloropropene | 995.5 | 30 | 1000 | 0 | 99.6 | 70-125 | 0 | | | |
| Dibromochloromethane | 881 | 30 | 1000 | 0 | 88.1 | 65-135 | 0 | | | |
| Dibromomethane | 968.5 | 30 | 1000 | 0 | 96.8 | 75-130 | 0 | | | |
| Dichlorodifluoromethane | 867 | 30 | 1000 | 0 | 86.7 | 35-135 | 0 | | | |
| Ethylbenzene | 958.5 | 30 | 1000 | 0 | 95.8 | 75-125 | 0 | | | |
| Hexachloroethane | 859.5 | 30 | 1000 | 0 | 86 | 70-135 | 0 | | | |
| Isopropylbenzene | 969.5 | 30 | 1000 | 0 | 97 | 75-130 | 0 | | | |
| m,p-Xylene | 1904 | 60 | 2000 | 0 | 95.2 | 80-125 | 0 | | | |
| Methyl tert-butyl ether | 1103 | 30 | 1000 | 0 | 110 | 75-125 | 0 | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

# QC BATCH REPORT

Batch ID: **46326** Instrument ID **VMS9** Method: **SW8260**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Methylene chloride | 950.5 | 30 | 1000 | 0 | 95 | 55-145 | 0 |
| Naphthalene | 944.5 | 100 | 1000 | 0 | 94.4 | 40-140 | 0 |
| n-Propylbenzene | 976 | 30 | 1000 | 0 | 97.6 | 65-135 | 0 |
| o-Xylene | 964 | 30 | 1000 | 0 | 96.4 | 75-125 | 0 |
| Styrene | 1004 | 30 | 1000 | 0 | 100 | 75-125 | 0 |
| Tetrachloroethene | 994 | 30 | 1000 | 0 | 99.4 | 64-140 | 0 |
| Toluene | 928.5 | 30 | 1000 | 0 | 92.8 | 70-125 | 0 |
| trans-1,2-Dichloroethene | 1010 | 30 | 1000 | 0 | 101 | 65-135 | 0 |
| trans-1,3-Dichloropropene | 957 | 30 | 1000 | 0 | 95.7 | 65-125 | 0 |
| trans-1,4-Dichloro-2-butene | 971.5 | 30 | 1000 | 0 | 97.2 | 70-135 | 0 |
| Trichloroethene | 987 | 30 | 1000 | 0 | 98.7 | 75-125 | 0 |
| Trichlorofluoromethane | 1100 | 30 | 1000 | 0 | 110 | 25-185 | 0 |
| Vinyl chloride | 962.5 | 30 | 1000 | 0 | 96.2 | 60-125 | 0 |
| Xylenes, Total | 2868 | 90 | 3000 | 0 | 95.6 | 75-125 | 0 |
| *Surr: 1,2-Dichloroethane-d4* | *860* | 0 | *1000* | 0 | *86* | *70-130* | 0 |
| *Surr: 4-Bromofluorobenzene* | *1032* | 0 | *1000* | 0 | *103* | *70-130* | 0 |
| *Surr: Dibromofluoromethane* | *940* | 0 | *1000* | 0 | *94* | *70-130* | 0 |
| *Surr: Toluene-d8* | *902* | 0 | *1000* | 0 | *90.2* | *70-130* | 0 |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302268
**Project:** Rock-Tenn Soil 2/5/13 - 2/6/13

# QC BATCH REPORT

Batch ID: **46326** Instrument ID **VMS9** Method: **SW8260**

**LCS** Sample ID: **LCS-46326-46326** Units: **µg/Kg** Analysis Date: **2/9/2013 03:02 AM**
Client ID: Run ID: **VMS7_130208B** SeqNo: **2212426** Prep Date: **2/8/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 972 | 30 | 1000 | 0 | 97.2 | 75-125 | 0 | | | |
| 1,1,1-Trichloroethane | 1018 | 30 | 1000 | 0 | 102 | 70-135 | 0 | | | |
| 1,1,2,2-Tetrachloroethane | 961.5 | 30 | 1000 | 0 | 96.2 | 55-130 | 0 | | | |
| 1,1,2-Trichloroethane | 901.5 | 30 | 1000 | 0 | 90.2 | 60-125 | 0 | | | |
| 1,1-Dichloroethane | 971 | 30 | 1000 | 0 | 97.1 | 75-125 | 0 | | | |
| 1,1-Dichloroethene | 1060 | 30 | 1000 | 0 | 106 | 65-135 | 0 | | | |
| 1,2,3-Trichloropropane | 985 | 30 | 1000 | 0 | 98.5 | 65-130 | 0 | | | |
| 1,2,4-Trichlorobenzene | 950.5 | 30 | 1000 | 0 | 95 | 65-130 | 0 | | | |
| 1,2,4-Trimethylbenzene | 985.5 | 30 | 1000 | 0 | 98.6 | 65-135 | 0 | | | |
| 1,2-Dibromo-3-chloropropane | 939 | 30 | 1000 | 0 | 93.9 | 40-135 | 0 | | | |
| 1,2-Dibromoethane | 975 | 30 | 1000 | 0 | 97.5 | 70-125 | 0 | | | |
| 1,2-Dichlorobenzene | 932.5 | 30 | 1000 | 0 | 93.2 | 75-120 | 0 | | | |
| 1,2-Dichloroethane | 993 | 30 | 1000 | 0 | 99.3 | 70-135 | 0 | | | |
| 1,2-Dichloropropane | 954 | 30 | 1000 | 0 | 95.4 | 70-120 | 0 | | | |
| 1,3,5-Trimethylbenzene | 981.5 | 30 | 1000 | 0 | 98.2 | 65-135 | 0 | | | |
| 1,3-Dichlorobenzene | 925 | 30 | 1000 | 0 | 92.5 | 70-125 | 0 | | | |
| 1,4-Dichlorobenzene | 923 | 30 | 1000 | 0 | 92.3 | 70-125 | 0 | | | |
| 2-Butanone | 1086 | 200 | 1000 | 0 | 109 | 30-160 | 0 | | | |
| 2-Hexanone | 1016 | 30 | 1000 | 0 | 102 | 45-145 | 0 | | | |
| 4-Methyl-2-pentanone | 1292 | 30 | 1000 | 0 | 129 | 45-145 | 0 | | | |
| Acetone | 1128 | 100 | 1000 | 0 | 113 | 20-160 | 0 | | | |
| Acrylonitrile | 1002 | 100 | 1000 | 0 | 100 | 70-135 | 0 | | | |
| Benzene | 981.5 | 30 | 1000 | 0 | 98.2 | 75-125 | 0 | | | |
| Bromochloromethane | 982.5 | 30 | 1000 | 0 | 98.2 | 70-125 | 0 | | | |
| Bromodichloromethane | 974.5 | 30 | 1000 | 0 | 97.4 | 70-130 | 0 | | | |
| Bromomethane | 873 | 75 | 1000 | 0 | 87.3 | 30-160 | 0 | | | |
| Carbon disulfide | 1091 | 30 | 1000 | 0 | 109 | 45-160 | 0 | | | |
| Carbon tetrachloride | 1122 | 30 | 1000 | 0 | 112 | 65-135 | 0 | | | |
| Chlorobenzene | 953.5 | 30 | 1000 | 0 | 95.4 | 75-125 | 0 | | | |
| Chloroethane | 888 | 100 | 1000 | 0 | 88.8 | 40-155 | 0 | | | |
| Chloroform | 981 | 30 | 1000 | 0 | 98.1 | 70-125 | 0 | | | |
| Chloromethane | 785 | 100 | 1000 | 0 | 78.5 | 50-130 | 0 | | | |
| cis-1,2-Dichloroethene | 957.5 | 30 | 1000 | 0 | 95.8 | 65-125 | 0 | | | |
| cis-1,3-Dichloropropene | 963.5 | 30 | 1000 | 0 | 96.4 | 70-125 | 0 | | | |
| Dibromochloromethane | 896.5 | 30 | 1000 | 0 | 89.6 | 65-135 | 0 | | | |
| Dibromomethane | 992.5 | 30 | 1000 | 0 | 99.2 | 75-130 | 0 | | | |
| Dichlorodifluoromethane | 791 | 30 | 1000 | 0 | 79.1 | 35-135 | 0 | | | |
| Ethylbenzene | 977 | 30 | 1000 | 0 | 97.7 | 75-125 | 0 | | | |
| Hexachloroethane | 815 | 30 | 1000 | 0 | 81.5 | 70-135 | 0 | | | |
| Isopropylbenzene | 983.5 | 30 | 1000 | 0 | 98.4 | 75-130 | 0 | | | |
| m,p-Xylene | 1958 | 60 | 2000 | 0 | 97.9 | 80-125 | 0 | | | |
| Methyl tert-butyl ether | 1068 | 30 | 1000 | 0 | 107 | 75-125 | 0 | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

# QC BATCH REPORT

Batch ID: **46326** Instrument ID **VMS9** Method: **SW8260**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Methylene chloride | 948.5 | 30 | 1000 | 0 | 94.8 | 55-145 | 0 |
| Naphthalene | 974.5 | 100 | 1000 | 0 | 97.4 | 40-140 | 0 |
| n-Propylbenzene | 975.5 | 30 | 1000 | 0 | 97.6 | 65-135 | 0 |
| o-Xylene | 986 | 30 | 1000 | 0 | 98.6 | 75-125 | 0 |
| Styrene | 1028 | 30 | 1000 | 0 | 103 | 75-125 | 0 |
| Tetrachloroethene | 973 | 30 | 1000 | 0 | 97.3 | 64-140 | 0 |
| Toluene | 948.5 | 30 | 1000 | 0 | 94.8 | 70-125 | 0 |
| trans-1,2-Dichloroethene | 1018 | 30 | 1000 | 0 | 102 | 65-135 | 0 |
| trans-1,3-Dichloropropene | 914 | 30 | 1000 | 0 | 91.4 | 65-125 | 0 |
| trans-1,4-Dichloro-2-butene | 868 | 30 | 1000 | 0 | 86.8 | 70-135 | 0 |
| Trichloroethene | 999.5 | 30 | 1000 | 0 | 100 | 75-125 | 0 |
| Trichlorofluoromethane | 1084 | 30 | 1000 | 0 | 108 | 25-185 | 0 |
| Vinyl chloride | 914.5 | 30 | 1000 | 0 | 91.4 | 60-125 | 0 |
| Xylenes, Total | 2944 | 90 | 3000 | 0 | 98.1 | 75-125 | 0 |
| *Surr: 1,2-Dichloroethane-d4* | *862* | 0 | *1000* | 0 | *86.2* | *70-130* | 0 |
| *Surr: 4-Bromofluorobenzene* | *1053* | 0 | *1000* | 0 | *105* | *70-130* | 0 |
| *Surr: Dibromofluoromethane* | *922* | 0 | *1000* | 0 | *92.2* | *70-130* | 0 |
| *Surr: Toluene-d8* | *904.5* | 0 | *1000* | 0 | *90.4* | *70-130* | 0 |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302268
**Project:** Rock-Tenn Soil 2/5/13 - 2/6/13

# QC BATCH REPORT

Batch ID: **46326** Instrument ID **VMS9** Method: **SW8260**

**MS** Sample ID: **1302268-14A MS** Units: **µg/Kg** Analysis Date: **2/9/2013 12:24 PM**

Client ID: **RT-GB-19 (8-10')** Run ID: **VMS7_130208B** SeqNo: **2212437** Prep Date: **2/8/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 1142 | 43 | 1439 | 0 | 79.4 | 75-125 | 0 | | | |
| 1,1,1-Trichloroethane | 1327 | 43 | 1439 | 0 | 92.2 | 70-135 | 0 | | | |
| 1,1,2,2-Tetrachloroethane | 1205 | 43 | 1439 | 0 | 83.8 | 55-130 | 0 | | | |
| 1,1,2-Trichloroethane | 1155 | 43 | 1439 | 0 | 80.3 | 60-125 | 0 | | | |
| 1,1-Dichloroethane | 1319 | 43 | 1439 | 0 | 91.7 | 75-125 | 0 | | | |
| 1,1-Dichloroethene | 1358 | 43 | 1439 | 0 | 94.4 | 65-135 | 0 | | | |
| 1,2,3-Trichloropropane | 1237 | 43 | 1439 | 0 | 86 | 65-130 | 0 | | | |
| 1,2,4-Trichlorobenzene | 1175 | 43 | 1439 | 0 | 81.6 | 65-130 | 0 | | | |
| 1,2,4-Trimethylbenzene | 1294 | 43 | 1439 | 0 | 89.9 | 65-135 | 0 | | | |
| 1,2-Dibromo-3-chloropropane | 951.1 | 43 | 1439 | 0 | 66.1 | 40-135 | 0 | | | |
| 1,2-Dibromoethane | 1228 | 43 | 1439 | 0 | 85.4 | 70-125 | 0 | | | |
| 1,2-Dichlorobenzene | 1278 | 43 | 1439 | 0 | 88.8 | 75-120 | 0 | | | |
| 1,2-Dichloroethane | 1381 | 43 | 1439 | 0 | 96 | 70-135 | 0 | | | |
| 1,2-Dichloropropane | 1333 | 43 | 1439 | 0 | 92.6 | 70-120 | 0 | | | |
| 1,3,5-Trimethylbenzene | 1322 | 43 | 1439 | 0 | 91.9 | 65-135 | 0 | | | |
| 1,3-Dichlorobenzene | 1263 | 43 | 1439 | 0 | 87.8 | 70-125 | 0 | | | |
| 1,4-Dichlorobenzene | 1258 | 43 | 1439 | 0 | 87.4 | 70-125 | 0 | | | |
| 2-Butanone | 1478 | 290 | 1439 | 0 | 103 | 30-160 | 0 | | | |
| 2-Hexanone | 1312 | 43 | 1439 | 0 | 91.2 | 45-145 | 0 | | | |
| 4-Methyl-2-pentanone | 1650 | 43 | 1439 | 0 | 115 | 45-145 | 0 | | | |
| Acetone | 1560 | 140 | 1439 | 0 | 108 | 20-160 | 0 | | | |
| Acrylonitrile | 1422 | 140 | 1439 | 0 | 98.8 | 70-135 | 0 | | | |
| Benzene | 1355 | 43 | 1439 | 0 | 94.2 | 75-125 | 0 | | | |
| Bromochloromethane | 1315 | 43 | 1439 | 0 | 91.4 | 70-125 | 0 | | | |
| Bromodichloromethane | 1246 | 43 | 1439 | 0 | 86.6 | 70-130 | 0 | | | |
| Bromomethane | 1060 | 110 | 1439 | 0 | 73.6 | 30-160 | 0 | | | |
| Carbon disulfide | 1300 | 43 | 1439 | 0 | 90.4 | 45-160 | 0 | | | |
| Carbon tetrachloride | 1373 | 43 | 1439 | 0 | 95.4 | 65-135 | 0 | | | |
| Chlorobenzene | 1230 | 43 | 1439 | 0 | 85.5 | 75-125 | 0 | | | |
| Chloroethane | 417.3 | 140 | 1439 | 0 | 29 | 40-155 | 0 | | | S |
| Chloroform | 1355 | 43 | 1439 | 0 | 94.2 | 70-125 | 0 | | | |
| Chloromethane | 1204 | 140 | 1439 | 0 | 83.7 | 50-130 | 0 | | | |
| cis-1,2-Dichloroethene | 1258 | 43 | 1439 | 0 | 87.4 | 65-125 | 0 | | | |
| cis-1,3-Dichloropropene | 1221 | 43 | 1439 | 0 | 84.8 | 70-125 | 0 | | | |
| Dibromochloromethane | 1008 | 43 | 1439 | 0 | 70 | 65-135 | 0 | | | |
| Dibromomethane | 1358 | 43 | 1439 | 0 | 94.4 | 75-130 | 0 | | | |
| Dichlorodifluoromethane | 1231 | 43 | 1439 | 0 | 85.6 | 35-135 | 0 | | | |
| Ethylbenzene | 1271 | 43 | 1439 | 0 | 88.4 | 75-125 | 0 | | | |
| Hexachloroethane | 920.9 | 43 | 1439 | 0 | 64 | 70-135 | 0 | | | S |
| Isopropylbenzene | 1288 | 43 | 1439 | 0 | 89.5 | 75-130 | 0 | | | |
| m,p-Xylene | 2521 | 86 | 2878 | 0 | 87.6 | 80-125 | 0 | | | |
| Methyl tert-butyl ether | 1606 | 43 | 1439 | 0 | 112 | 75-125 | 0 | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

# QC BATCH REPORT

Batch ID: **46326** Instrument ID **VMS9** Method: **SW8260**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Methylene chloride | 1340 | 43 | 1439 | 0 | 93.1 | 55-145 | 0 | |
| Naphthalene | 1082 | 140 | 1439 | 48.78 | 71.8 | 40-140 | 0 | |
| n-Propylbenzene | 1289 | 43 | 1439 | 0 | 89.6 | 65-135 | 0 | |
| o-Xylene | 1278 | 43 | 1439 | 0 | 88.8 | 75-125 | 0 | |
| Styrene | 1329 | 43 | 1439 | 0 | 92.4 | 75-125 | 0 | |
| Tetrachloroethene | 1222 | 43 | 1439 | 0 | 85 | 64-140 | 0 | |
| Toluene | 1198 | 43 | 1439 | 0 | 83.2 | 70-125 | 0 | |
| trans-1,2-Dichloroethene | 1355 | 43 | 1439 | 0 | 94.2 | 65-135 | 0 | |
| trans-1,3-Dichloropropene | 1064 | 43 | 1439 | 0 | 74 | 65-125 | 0 | |
| trans-1,4-Dichloro-2-butene | 933.8 | 43 | 1439 | 0 | 64.9 | 70-135 | 0 | S |
| Trichloroethene | 1332 | 43 | 1439 | 0 | 92.6 | 75-125 | 0 | |
| Trichlorofluoromethane | 1013 | 43 | 1439 | 0 | 70.4 | 25-185 | 0 | |
| Vinyl chloride | 1353 | 43 | 1439 | 0 | 94 | 60-125 | 0 | |
| Xylenes, Total | 3799 | 130 | 4317 | 0 | 88 | 75-125 | 0 | |
| *Surr: 1,2-Dichloroethane-d4* | *1268* | 0 | *1439* | 0 | *88.1* | *70-130* | 0 | |
| *Surr: 4-Bromofluorobenzene* | *1515* | 0 | *1439* | 0 | *105* | *70-130* | 0 | |
| *Surr: Dibromofluoromethane* | *1273* | 0 | *1439* | 0 | *88.5* | *70-130* | 0 | |
| *Surr: Toluene-d8* | *1224* | 0 | *1439* | 0 | *85* | *70-130* | 0 | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302268
**Project:** Rock-Tenn Soil 2/5/13 - 2/6/13

# QC BATCH REPORT

Batch ID: **46326** Instrument ID **VMS9** Method: **SW8260**

**MSD** Sample ID: **1302268-14A MSD** Units: **µg/Kg** Analysis Date: **2/9/2013 12:49 PM**

Client ID: **RT-GB-19 (8-10')** Run ID: **VMS7_130208B** SeqNo: **2212438** Prep Date: **2/8/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 1137 | 43 | 1439 | 0 | 79 | 75-125 | 1142 | 0.442 | 30 | |
| 1,1,1-Trichloroethane | 1308 | 43 | 1439 | 0 | 90.9 | 70-135 | 1327 | 1.42 | 30 | |
| 1,1,2,2-Tetrachloroethane | 1178 | 43 | 1439 | 0 | 81.9 | 55-130 | 1205 | 2.23 | 30 | |
| 1,1,2-Trichloroethane | 1171 | 43 | 1439 | 0 | 81.4 | 60-125 | 1155 | 1.3 | 30 | |
| 1,1-Dichloroethane | 1304 | 43 | 1439 | 0 | 90.6 | 75-125 | 1319 | 1.21 | 30 | |
| 1,1-Dichloroethene | 1329 | 43 | 1439 | 0 | 92.4 | 65-135 | 1358 | 2.14 | 30 | |
| 1,2,3-Trichloropropane | 1264 | 43 | 1439 | 0 | 87.8 | 65-130 | 1237 | 2.13 | 30 | |
| 1,2,4-Trichlorobenzene | 1218 | 43 | 1439 | 0 | 84.6 | 65-130 | 1175 | 3.61 | 30 | |
| 1,2,4-Trimethylbenzene | 1240 | 43 | 1439 | 0 | 86.2 | 65-135 | 1294 | 4.26 | 30 | |
| 1,2-Dibromo-3-chloropropane | 986.3 | 43 | 1439 | 0 | 68.6 | 40-135 | 951.1 | 3.64 | 30 | |
| 1,2-Dibromoethane | 1275 | 43 | 1439 | 0 | 88.6 | 70-125 | 1228 | 3.74 | 30 | |
| 1,2-Dichlorobenzene | 1244 | 43 | 1439 | 0 | 86.4 | 75-120 | 1278 | 2.74 | 30 | |
| 1,2-Dichloroethane | 1392 | 43 | 1439 | 0 | 96.8 | 70-135 | 1381 | 0.778 | 30 | |
| 1,2-Dichloropropane | 1297 | 43 | 1439 | 0 | 90.2 | 70-120 | 1333 | 2.74 | 30 | |
| 1,3,5-Trimethylbenzene | 1280 | 43 | 1439 | 0 | 89 | 65-135 | 1322 | 3.26 | 30 | |
| 1,3-Dichlorobenzene | 1237 | 43 | 1439 | 0 | 86 | 70-125 | 1263 | 2.01 | 30 | |
| 1,4-Dichlorobenzene | 1227 | 43 | 1439 | 0 | 85.3 | 70-125 | 1258 | 2.43 | 30 | |
| 2-Butanone | 1051 | 290 | 1439 | 0 | 73 | 30-160 | 1478 | 33.8 | 30 | R |
| 2-Hexanone | 1286 | 43 | 1439 | 0 | 89.4 | 45-145 | 1312 | 2.05 | 30 | |
| 4-Methyl-2-pentanone | 1668 | 43 | 1439 | 0 | 116 | 45-145 | 1650 | 1.08 | 30 | |
| Acetone | 1571 | 140 | 1439 | 0 | 109 | 20-160 | 1560 | 0.689 | 30 | |
| Acrylonitrile | 1443 | 140 | 1439 | 0 | 100 | 70-135 | 1422 | 1.51 | 30 | |
| Benzene | 1312 | 43 | 1439 | 0 | 91.2 | 75-125 | 1355 | 3.24 | 30 | |
| Bromochloromethane | 1299 | 43 | 1439 | 0 | 90.2 | 70-125 | 1315 | 1.27 | 30 | |
| Bromodichloromethane | 1229 | 43 | 1439 | 0 | 85.4 | 70-130 | 1246 | 1.34 | 30 | |
| Bromomethane | 1241 | 110 | 1439 | 0 | 86.2 | 30-160 | 1060 | 15.8 | 30 | |
| Carbon disulfide | 1256 | 43 | 1439 | 0 | 87.3 | 45-160 | 1300 | 3.43 | 30 | |
| Carbon tetrachloride | 1346 | 43 | 1439 | 0 | 93.6 | 65-135 | 1373 | 1.96 | 30 | |
| Chlorobenzene | 1227 | 43 | 1439 | 0 | 85.3 | 75-125 | 1230 | 0.234 | 30 | |
| Chloroethane | 421.6 | 140 | 1439 | 0 | 29.3 | 40-155 | 417.3 | 1.03 | 30 | S |
| Chloroform | 1327 | 43 | 1439 | 0 | 92.2 | 70-125 | 1355 | 2.15 | 30 | |
| Chloromethane | 1154 | 140 | 1439 | 0 | 80.2 | 50-130 | 1204 | 4.27 | 30 | |
| cis-1,2-Dichloroethene | 1218 | 43 | 1439 | 0 | 84.6 | 65-125 | 1258 | 3.2 | 30 | |
| cis-1,3-Dichloropropene | 1174 | 43 | 1439 | 0 | 81.6 | 70-125 | 1221 | 3.91 | 30 | |
| Dibromochloromethane | 1024 | 43 | 1439 | 0 | 71.2 | 65-135 | 1008 | 1.56 | 30 | |
| Dibromomethane | 1371 | 43 | 1439 | 0 | 95.2 | 75-130 | 1358 | 0.949 | 30 | |
| Dichlorodifluoromethane | 1182 | 43 | 1439 | 0 | 82.2 | 35-135 | 1231 | 4.05 | 30 | |
| Ethylbenzene | 1274 | 43 | 1439 | 0 | 88.6 | 75-125 | 1271 | 0.226 | 30 | |
| Hexachloroethane | 932.4 | 43 | 1439 | 0 | 64.8 | 70-135 | 920.9 | 1.24 | 30 | S |
| Isopropylbenzene | 1283 | 43 | 1439 | 0 | 89.2 | 75-130 | 1288 | 0.392 | 30 | |
| m,p-Xylene | 2510 | 86 | 2878 | 0 | 87.2 | 80-125 | 2521 | 0.429 | 30 | |
| Methyl tert-butyl ether | 1588 | 43 | 1439 | 0 | 110 | 75-125 | 1606 | 1.17 | 30 | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

# QC BATCH REPORT

Batch ID: **46326** Instrument ID **VMS9** Method: **SW8260**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Methylene chloride | 1296 | 43 | 1439 | 0 | 90 | 55-145 | 1340 | 3.33 | 30 | |
| Naphthalene | 1192 | 140 | 1439 | 48.78 | 79.5 | 40-140 | 1082 | 9.68 | 30 | |
| n-Propylbenzene | 1240 | 43 | 1439 | 0 | 86.2 | 65-135 | 1289 | 3.93 | 30 | |
| o-Xylene | 1276 | 43 | 1439 | 0 | 88.7 | 75-125 | 1278 | 0.113 | 30 | |
| Styrene | 1318 | 43 | 1439 | 0 | 91.6 | 75-125 | 1329 | 0.87 | 30 | |
| Tetrachloroethene | 1234 | 43 | 1439 | 0 | 85.8 | 64-140 | 1222 | 0.937 | 30 | |
| Toluene | 1209 | 43 | 1439 | 0 | 84 | 70-125 | 1198 | 0.897 | 30 | |
| trans-1,2-Dichloroethene | 1350 | 43 | 1439 | 0 | 93.8 | 65-135 | 1355 | 0.372 | 30 | |
| trans-1,3-Dichloropropene | 1090 | 43 | 1439 | 0 | 75.8 | 65-125 | 1064 | 2.4 | 30 | |
| trans-1,4-Dichloro-2-butene | 972.7 | 43 | 1439 | 0 | 67.6 | 70-135 | 933.8 | 4.08 | 30 | S |
| Trichloroethene | 1312 | 43 | 1439 | 0 | 91.2 | 75-125 | 1332 | 1.52 | 30 | |
| Trichlorofluoromethane | 937.4 | 43 | 1439 | 0 | 65.2 | 25-185 | 1013 | 7.75 | 30 | |
| Vinyl chloride | 1296 | 43 | 1439 | 0 | 90.1 | 60-125 | 1353 | 4.24 | 30 | |
| Xylenes, Total | 3786 | 130 | 4317 | 0 | 87.7 | 75-125 | 3799 | 0.322 | 30 | |
| *Surr: 1,2-Dichloroethane-d4* | *1273* | 0 | *1439* | 0 | *88.4* | *70-130* | 1268 | *0.396* | *30* | |
| *Surr: 4-Bromofluorobenzene* | *1498* | 0 | *1439* | 0 | *104* | *70-130* | 1515 | *1.15* | *30* | |
| *Surr: Dibromofluoromethane* | *1312* | 0 | *1439* | 0 | *91.2* | *70-130* | 1273 | *3.01* | *30* | |
| *Surr: Toluene-d8* | *1242* | 0 | *1439* | 0 | *86.4* | *70-130* | 1224 | *1.52* | *30* | |

**The following samples were analyzed in this batch:**

| | | |
|---|---|---|
| 1302268-01A | 1302268-02A | 1302268-03A |
| 1302268-04A | 1302268-05A | 1302268-06A |
| 1302268-07A | 1302268-08A | 1302268-09A |
| 1302268-10A | 1302268-11A | 1302268-12A |
| 1302268-13A | 1302268-14A | 1302268-15A |
| 1302268-16A | 1302268-17A | 1302268-18A |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302268
**Project:** Rock-Tenn Soil 2/5/13 - 2/6/13

# QC BATCH REPORT

Batch ID: **46327** Instrument ID **VMS5** Method: **SW8260**

**MBLK** Sample ID: **MBLK-46327-46327** Units: **µg/Kg** Analysis Date: **2/8/2013 12:16 PM**
Client ID: Run ID: **VMS5_130208A** SeqNo: **2212198** Prep Date: **2/8/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 30 | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 30 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 30 | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 30 | | | | | | | | |
| 1,1-Dichloroethane | ND | 30 | | | | | | | | |
| 1,1-Dichloroethene | ND | 30 | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 30 | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 30 | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 30 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 30 | | | | | | | | |
| 1,2-Dibromoethane | ND | 30 | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 30 | | | | | | | | |
| 1,2-Dichloroethane | ND | 30 | | | | | | | | |
| 1,2-Dichloropropane | ND | 30 | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 30 | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 30 | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 30 | | | | | | | | |
| 2-Butanone | ND | 200 | | | | | | | | |
| 2-Hexanone | ND | 30 | | | | | | | | |
| 2-Methylnaphthalene | ND | 100 | | | | | | | | |
| 4-Methyl-2-pentanone | ND | 30 | | | | | | | | |
| Acetone | ND | 100 | | | | | | | | |
| Acrylonitrile | ND | 100 | | | | | | | | |
| Benzene | ND | 30 | | | | | | | | |
| Bromochloromethane | ND | 30 | | | | | | | | |
| Bromodichloromethane | ND | 30 | | | | | | | | |
| Bromomethane | ND | 75 | | | | | | | | |
| Carbon disulfide | ND | 30 | | | | | | | | |
| Carbon tetrachloride | ND | 30 | | | | | | | | |
| Chlorobenzene | ND | 30 | | | | | | | | |
| Chloroethane | ND | 100 | | | | | | | | |
| Chloroform | ND | 30 | | | | | | | | |
| Chloromethane | ND | 100 | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 30 | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 30 | | | | | | | | |
| Dibromochloromethane | ND | 30 | | | | | | | | |
| Dibromomethane | ND | 30 | | | | | | | | |
| Dichlorodifluoromethane | ND | 30 | | | | | | | | |
| Diethyl ether | ND | 30 | | | | | | | | |
| Ethylbenzene | ND | 30 | | | | | | | | |
| Hexachloroethane | ND | 30 | | | | | | | | |
| Isopropylbenzene | ND | 30 | | | | | | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Batch ID: **46327** Instrument ID **VMS5** Method: **SW8260**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| m,p-Xylene | ND | 60 | | | | | |
| Methyl iodide | ND | 75 | | | | | |
| Methyl tert-butyl ether | ND | 30 | | | | | |
| Methylene chloride | ND | 30 | | | | | |
| Naphthalene | ND | 100 | | | | | |
| n-Propylbenzene | ND | 30 | | | | | |
| o-Xylene | ND | 30 | | | | | |
| Styrene | ND | 30 | | | | | |
| Tetrachloroethene | ND | 30 | | | | | |
| Toluene | ND | 30 | | | | | |
| trans-1,2-Dichloroethene | ND | 30 | | | | | |
| trans-1,3-Dichloropropene | ND | 30 | | | | | |
| trans-1,4-Dichloro-2-butene | ND | 30 | | | | | |
| Trichloroethene | ND | 30 | | | | | |
| Trichlorofluoromethane | ND | 30 | | | | | |
| Vinyl acetate | ND | 30 | | | | | |
| Vinyl chloride | ND | 30 | | | | | |
| 1,2-Dichloroethene, Total | ND | 60 | | | | | |
| 1,3-Dichloropropene, Total | ND | 60 | | | | | |
| Xylenes, Total | ND | 90 | | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *1045* | 0 | *1000* | 0 | *104* | *70-130* | 0 |
| *Surr: 4-Bromofluorobenzene* | *1079* | 0 | *1000* | 0 | *108* | *70-130* | 0 |
| *Surr: Dibromofluoromethane* | *989* | 0 | *1000* | 0 | *98.9* | *70-130* | 0 |
| *Surr: Toluene-d8* | *944.5* | 0 | *1000* | 0 | *94.4* | *70-130* | 0 |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302268
**Project:** Rock-Tenn Soil 2/5/13 - 2/6/13

# QC BATCH REPORT

Batch ID: **46327** Instrument ID **VMS5** Method: **SW8260**

**MBLK** Sample ID: **MBLK-46327-46327** Units: **µg/Kg** Analysis Date: **2/8/2013 03:33 PM**
Client ID: Run ID: **VMS7_130208A** SeqNo: **2212319** Prep Date: **2/8/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 30 | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 30 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 30 | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 30 | | | | | | | | |
| 1,1-Dichloroethane | ND | 30 | | | | | | | | |
| 1,1-Dichloroethene | ND | 30 | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 30 | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 30 | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 30 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 30 | | | | | | | | |
| 1,2-Dibromoethane | ND | 30 | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 30 | | | | | | | | |
| 1,2-Dichloroethane | ND | 30 | | | | | | | | |
| 1,2-Dichloropropane | ND | 30 | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 30 | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 30 | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 30 | | | | | | | | |
| 2-Butanone | ND | 200 | | | | | | | | |
| 2-Hexanone | ND | 30 | | | | | | | | |
| 2-Methylnaphthalene | ND | 100 | | | | | | | | |
| 4-Methyl-2-pentanone | ND | 30 | | | | | | | | |
| Acetone | ND | 100 | | | | | | | | |
| Acrylonitrile | ND | 100 | | | | | | | | |
| Benzene | ND | 30 | | | | | | | | |
| Bromochloromethane | ND | 30 | | | | | | | | |
| Bromodichloromethane | ND | 30 | | | | | | | | |
| Bromomethane | ND | 75 | | | | | | | | |
| Carbon disulfide | ND | 30 | | | | | | | | |
| Carbon tetrachloride | ND | 30 | | | | | | | | |
| Chlorobenzene | ND | 30 | | | | | | | | |
| Chloroethane | ND | 100 | | | | | | | | |
| Chloroform | ND | 30 | | | | | | | | |
| Chloromethane | ND | 100 | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 30 | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 30 | | | | | | | | |
| Dibromochloromethane | ND | 30 | | | | | | | | |
| Dibromomethane | ND | 30 | | | | | | | | |
| Dichlorodifluoromethane | ND | 30 | | | | | | | | |
| Diethyl ether | ND | 30 | | | | | | | | |
| Ethylbenzene | ND | 30 | | | | | | | | |
| Hexachloroethane | ND | 30 | | | | | | | | |
| Isopropylbenzene | ND | 30 | | | | | | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

# QC BATCH REPORT

Batch ID: **46327** Instrument ID **VMS5** Method: **SW8260**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| m,p-Xylene | ND | 60 | | | | | |
| Methyl iodide | ND | 75 | | | | | |
| Methyl tert-butyl ether | ND | 30 | | | | | |
| Methylene chloride | ND | 30 | | | | | |
| Naphthalene | ND | 100 | | | | | |
| n-Propylbenzene | ND | 30 | | | | | |
| o-Xylene | ND | 30 | | | | | |
| Styrene | ND | 30 | | | | | |
| Tetrachloroethene | ND | 30 | | | | | |
| Toluene | ND | 30 | | | | | |
| trans-1,2-Dichloroethene | ND | 30 | | | | | |
| trans-1,3-Dichloropropene | ND | 30 | | | | | |
| trans-1,4-Dichloro-2-butene | ND | 30 | | | | | |
| Trichloroethene | ND | 30 | | | | | |
| Trichlorofluoromethane | ND | 30 | | | | | |
| Vinyl acetate | ND | 30 | | | | | |
| Vinyl chloride | ND | 30 | | | | | |
| 1,2-Dichloroethene, Total | ND | 60 | | | | | |
| 1,3-Dichloropropene, Total | ND | 60 | | | | | |
| Xylenes, Total | ND | 90 | | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *874.5* | 0 | *1000* | 0 | *87.4* | *70-130* | 0 |
| *Surr: 4-Bromofluorobenzene* | *1006* | 0 | *1000* | 0 | *101* | *70-130* | 0 |
| *Surr: Dibromofluoromethane* | *858.5* | 0 | *1000* | 0 | *85.8* | *70-130* | 0 |
| *Surr: Toluene-d8* | *857* | 0 | *1000* | 0 | *85.7* | *70-130* | 0 |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302268
**Project:** Rock-Tenn Soil 2/5/13 - 2/6/13

# QC BATCH REPORT

Batch ID: **46327** Instrument ID **VMS5** Method: **SW8260**

**MBLK** Sample ID: **MBLK-46327-46327** Units: **µg/Kg** Analysis Date: **2/8/2013 11:52 PM**
Client ID: Run ID: **VMS5_130208B** SeqNo: **2212490** Prep Date: **2/8/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 30 | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 30 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 30 | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 30 | | | | | | | | |
| 1,1-Dichloroethane | ND | 30 | | | | | | | | |
| 1,1-Dichloroethene | ND | 30 | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 30 | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 30 | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 30 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 30 | | | | | | | | |
| 1,2-Dibromoethane | ND | 30 | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 30 | | | | | | | | |
| 1,2-Dichloroethane | ND | 30 | | | | | | | | |
| 1,2-Dichloropropane | ND | 30 | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 30 | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 30 | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 30 | | | | | | | | |
| 2-Butanone | ND | 200 | | | | | | | | |
| 2-Hexanone | ND | 30 | | | | | | | | |
| 2-Methylnaphthalene | ND | 100 | | | | | | | | |
| 4-Methyl-2-pentanone | ND | 30 | | | | | | | | |
| Acetone | ND | 100 | | | | | | | | |
| Acrylonitrile | ND | 100 | | | | | | | | |
| Benzene | ND | 30 | | | | | | | | |
| Bromochloromethane | ND | 30 | | | | | | | | |
| Bromodichloromethane | ND | 30 | | | | | | | | |
| Bromomethane | ND | 75 | | | | | | | | |
| Carbon disulfide | ND | 30 | | | | | | | | |
| Carbon tetrachloride | ND | 30 | | | | | | | | |
| Chlorobenzene | ND | 30 | | | | | | | | |
| Chloroethane | ND | 100 | | | | | | | | |
| Chloroform | ND | 30 | | | | | | | | |
| Chloromethane | ND | 100 | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 30 | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 30 | | | | | | | | |
| Dibromochloromethane | ND | 30 | | | | | | | | |
| Dibromomethane | ND | 30 | | | | | | | | |
| Dichlorodifluoromethane | ND | 30 | | | | | | | | |
| Diethyl ether | ND | 30 | | | | | | | | |
| Ethylbenzene | ND | 30 | | | | | | | | |
| Hexachloroethane | ND | 30 | | | | | | | | |
| Isopropylbenzene | ND | 30 | | | | | | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Batch ID: **46327** Instrument ID **VMS5** Method: **SW8260**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| m,p-Xylene | ND | 60 | | | | | |
| Methyl iodide | ND | 75 | | | | | |
| Methyl tert-butyl ether | ND | 30 | | | | | |
| Methylene chloride | ND | 30 | | | | | |
| Naphthalene | ND | 100 | | | | | |
| n-Propylbenzene | ND | 30 | | | | | |
| o-Xylene | ND | 30 | | | | | |
| Styrene | ND | 30 | | | | | |
| Tetrachloroethene | ND | 30 | | | | | |
| Toluene | ND | 30 | | | | | |
| trans-1,2-Dichloroethene | ND | 30 | | | | | |
| trans-1,3-Dichloropropene | ND | 30 | | | | | |
| trans-1,4-Dichloro-2-butene | ND | 30 | | | | | |
| Trichloroethene | ND | 30 | | | | | |
| Trichlorofluoromethane | ND | 30 | | | | | |
| Vinyl acetate | ND | 30 | | | | | |
| Vinyl chloride | ND | 30 | | | | | |
| 1,2-Dichloroethene, Total | ND | 60 | | | | | |
| 1,3-Dichloropropene, Total | ND | 60 | | | | | |
| Xylenes, Total | ND | 90 | | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *989.5* | 0 | *1000* | 0 | *99* | *70-130* | 0 |
| *Surr: 4-Bromofluorobenzene* | *1080* | 0 | *1000* | 0 | *108* | *70-130* | 0 |
| *Surr: Dibromofluoromethane* | *986.5* | 0 | *1000* | 0 | *98.6* | *70-130* | 0 |
| *Surr: Toluene-d8* | *927* | 0 | *1000* | 0 | *92.7* | *70-130* | 0 |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302268
**Project:** Rock-Tenn Soil 2/5/13 - 2/6/13

# QC BATCH REPORT

Batch ID: **46327** Instrument ID **VMS5** Method: **SW8260**

**LCS** Sample ID: **LCS-46327-46327** Units: **µg/Kg** Analysis Date: **2/8/2013 11:04 AM**
Client ID: Run ID: **VMS5_130208A** SeqNo: **2212197** Prep Date: **2/8/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 872 | 30 | 1000 | 0 | 87.2 | 75-125 | 0 | | | |
| 1,1,1-Trichloroethane | 988.5 | 30 | 1000 | 0 | 98.8 | 70-135 | 0 | | | |
| 1,1,2,2-Tetrachloroethane | 869.5 | 30 | 1000 | 0 | 87 | 55-130 | 0 | | | |
| 1,1,2-Trichloroethane | 859 | 30 | 1000 | 0 | 85.9 | 60-125 | 0 | | | |
| 1,1-Dichloroethane | 987 | 30 | 1000 | 0 | 98.7 | 75-125 | 0 | | | |
| 1,1-Dichloroethene | 1046 | 30 | 1000 | 0 | 105 | 65-135 | 0 | | | |
| 1,2,3-Trichloropropane | 859.5 | 30 | 1000 | 0 | 86 | 65-130 | 0 | | | |
| 1,2,4-Trichlorobenzene | 914 | 30 | 1000 | 0 | 91.4 | 65-130 | 0 | | | |
| 1,2,4-Trimethylbenzene | 857.5 | 30 | 1000 | 0 | 85.8 | 65-135 | 0 | | | |
| 1,2-Dibromo-3-chloropropane | 836.5 | 30 | 1000 | 0 | 83.6 | 40-135 | 0 | | | |
| 1,2-Dibromoethane | 874.5 | 30 | 1000 | 0 | 87.4 | 70-125 | 0 | | | |
| 1,2-Dichlorobenzene | 827.5 | 30 | 1000 | 0 | 82.8 | 75-120 | 0 | | | |
| 1,2-Dichloroethane | 1008 | 30 | 1000 | 0 | 101 | 70-135 | 0 | | | |
| 1,2-Dichloropropane | 929.5 | 30 | 1000 | 0 | 93 | 70-120 | 0 | | | |
| 1,3,5-Trimethylbenzene | 872 | 30 | 1000 | 0 | 87.2 | 65-135 | 0 | | | |
| 1,3-Dichlorobenzene | 841 | 30 | 1000 | 0 | 84.1 | 70-125 | 0 | | | |
| 1,4-Dichlorobenzene | 822 | 30 | 1000 | 0 | 82.2 | 70-125 | 0 | | | |
| 2-Butanone | 804 | 200 | 1000 | 0 | 80.4 | 30-160 | 0 | | | |
| 2-Hexanone | 948.5 | 30 | 1000 | 0 | 94.8 | 45-145 | 0 | | | |
| 4-Methyl-2-pentanone | 994 | 30 | 1000 | 0 | 99.4 | 45-145 | 0 | | | |
| Acetone | 712.5 | 100 | 1000 | 0 | 71.2 | 20-160 | 0 | | | |
| Acrylonitrile | 917 | 100 | 1000 | 0 | 91.7 | 70-135 | 0 | | | |
| Benzene | 978 | 30 | 1000 | 0 | 97.8 | 75-125 | 0 | | | |
| Bromochloromethane | 1003 | 30 | 1000 | 0 | 100 | 70-125 | 0 | | | |
| Bromodichloromethane | 945.5 | 30 | 1000 | 0 | 94.6 | 70-130 | 0 | | | |
| Bromomethane | 1208 | 75 | 1000 | 0 | 121 | 30-160 | 0 | | | |
| Carbon disulfide | 1155 | 30 | 1000 | 0 | 116 | 45-160 | 0 | | | |
| Carbon tetrachloride | 1024 | 30 | 1000 | 0 | 102 | 65-135 | 0 | | | |
| Chlorobenzene | 866.5 | 30 | 1000 | 0 | 86.6 | 75-125 | 0 | | | |
| Chloroethane | 1033 | 100 | 1000 | 0 | 103 | 40-155 | 0 | | | |
| Chloroform | 978 | 30 | 1000 | 0 | 97.8 | 70-125 | 0 | | | |
| Chloromethane | 995 | 100 | 1000 | 0 | 99.5 | 50-130 | 0 | | | |
| cis-1,2-Dichloroethene | 1006 | 30 | 1000 | 0 | 101 | 65-125 | 0 | | | |
| cis-1,3-Dichloropropene | 935.5 | 30 | 1000 | 0 | 93.6 | 70-125 | 0 | | | |
| Dibromochloromethane | 852.5 | 30 | 1000 | 0 | 85.2 | 65-135 | 0 | | | |
| Dibromomethane | 896.5 | 30 | 1000 | 0 | 89.6 | 75-130 | 0 | | | |
| Dichlorodifluoromethane | 733 | 30 | 1000 | 0 | 73.3 | 35-135 | 0 | | | |
| Ethylbenzene | 889 | 30 | 1000 | 0 | 88.9 | 75-125 | 0 | | | |
| Hexachloroethane | 897 | 30 | 1000 | 0 | 89.7 | 70-135 | 0 | | | |
| Isopropylbenzene | 882.5 | 30 | 1000 | 0 | 88.2 | 75-130 | 0 | | | |
| m,p-Xylene | 1734 | 60 | 2000 | 0 | 86.7 | 80-125 | 0 | | | |
| Methyl tert-butyl ether | 1052 | 30 | 1000 | 0 | 105 | 75-125 | 0 | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

# QC BATCH REPORT

Batch ID: **46327** Instrument ID **VMS5** Method: **SW8260**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Methylene chloride | 1046 | 30 | 1000 | 0 | 105 | 55-145 | 0 |
| Naphthalene | 826 | 100 | 1000 | 0 | 82.6 | 40-140 | 0 |
| n-Propylbenzene | 867 | 30 | 1000 | 0 | 86.7 | 65-135 | 0 |
| o-Xylene | 877.5 | 30 | 1000 | 0 | 87.8 | 75-125 | 0 |
| Styrene | 874 | 30 | 1000 | 0 | 87.4 | 75-125 | 0 |
| Tetrachloroethene | 890 | 30 | 1000 | 0 | 89 | 64-140 | 0 |
| Toluene | 870 | 30 | 1000 | 0 | 87 | 70-125 | 0 |
| trans-1,2-Dichloroethene | 1006 | 30 | 1000 | 0 | 101 | 65-135 | 0 |
| trans-1,3-Dichloropropene | 853 | 30 | 1000 | 0 | 85.3 | 65-125 | 0 |
| trans-1,4-Dichloro-2-butene | 917 | 30 | 1000 | 0 | 91.7 | 70-135 | 0 |
| Trichloroethene | 904 | 30 | 1000 | 0 | 90.4 | 75-125 | 0 |
| Trichlorofluoromethane | 1043 | 30 | 1000 | 0 | 104 | 25-185 | 0 |
| Vinyl chloride | 1018 | 30 | 1000 | 0 | 102 | 60-125 | 0 |
| Xylenes, Total | 2612 | 90 | 3000 | 0 | 87 | 75-125 | 0 |
| *Surr: 1,2-Dichloroethane-d4* | *987.5* | 0 | *1000* | 0 | *98.8* | *70-130* | 0 |
| *Surr: 4-Bromofluorobenzene* | *1056* | 0 | *1000* | 0 | *106* | *70-130* | 0 |
| *Surr: Dibromofluoromethane* | *983* | 0 | *1000* | 0 | *98.3* | *70-130* | 0 |
| *Surr: Toluene-d8* | *910.5* | 0 | *1000* | 0 | *91* | *70-130* | 0 |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302268
**Project:** Rock-Tenn Soil 2/5/13 - 2/6/13

# QC BATCH REPORT

Batch ID: **46327** Instrument ID **VMS5** Method: **SW8260**

**LCS** Sample ID: **LCS-46327-46327** Units: **µg/Kg** Analysis Date: **2/8/2013 02:18 PM**
Client ID: Run ID: **VMS7_130208A** SeqNo: **2212313** Prep Date: **2/8/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 948.5 | 30 | 1000 | 0 | 94.8 | 75-125 | 0 | | | |
| 1,1,1-Trichloroethane | 1030 | 30 | 1000 | 0 | 103 | 70-135 | 0 | | | |
| 1,1,2,2-Tetrachloroethane | 919 | 30 | 1000 | 0 | 91.9 | 55-130 | 0 | | | |
| 1,1,2-Trichloroethane | 864 | 30 | 1000 | 0 | 86.4 | 60-125 | 0 | | | |
| 1,1-Dichloroethane | 961 | 30 | 1000 | 0 | 96.1 | 75-125 | 0 | | | |
| 1,1-Dichloroethene | 1060 | 30 | 1000 | 0 | 106 | 65-135 | 0 | | | |
| 1,2,3-Trichloropropane | 938.5 | 30 | 1000 | 0 | 93.8 | 65-130 | 0 | | | |
| 1,2,4-Trichlorobenzene | 1006 | 30 | 1000 | 0 | 101 | 65-130 | 0 | | | |
| 1,2,4-Trimethylbenzene | 967.5 | 30 | 1000 | 0 | 96.8 | 65-135 | 0 | | | |
| 1,2-Dibromo-3-chloropropane | 878.5 | 30 | 1000 | 0 | 87.8 | 40-135 | 0 | | | |
| 1,2-Dibromoethane | 941 | 30 | 1000 | 0 | 94.1 | 70-125 | 0 | | | |
| 1,2-Dichlorobenzene | 960.5 | 30 | 1000 | 0 | 96 | 75-120 | 0 | | | |
| 1,2-Dichloroethane | 967.5 | 30 | 1000 | 0 | 96.8 | 70-135 | 0 | | | |
| 1,2-Dichloropropane | 940.5 | 30 | 1000 | 0 | 94 | 70-120 | 0 | | | |
| 1,3,5-Trimethylbenzene | 973.5 | 30 | 1000 | 0 | 97.4 | 65-135 | 0 | | | |
| 1,3-Dichlorobenzene | 963.5 | 30 | 1000 | 0 | 96.4 | 70-125 | 0 | | | |
| 1,4-Dichlorobenzene | 947 | 30 | 1000 | 0 | 94.7 | 70-125 | 0 | | | |
| 2-Butanone | 1028 | 200 | 1000 | 0 | 103 | 30-160 | 0 | | | |
| 2-Hexanone | 941.5 | 30 | 1000 | 0 | 94.2 | 45-145 | 0 | | | |
| 4-Methyl-2-pentanone | 1202 | 30 | 1000 | 0 | 120 | 45-145 | 0 | | | |
| Acetone | 966 | 100 | 1000 | 0 | 96.6 | 20-160 | 0 | | | |
| Acrylonitrile | 965.5 | 100 | 1000 | 0 | 96.6 | 70-135 | 0 | | | |
| Benzene | 969 | 30 | 1000 | 0 | 96.9 | 75-125 | 0 | | | |
| Bromochloromethane | 969 | 30 | 1000 | 0 | 96.9 | 70-125 | 0 | | | |
| Bromodichloromethane | 954.5 | 30 | 1000 | 0 | 95.4 | 70-130 | 0 | | | |
| Bromomethane | 1002 | 75 | 1000 | 0 | 100 | 30-160 | 0 | | | |
| Carbon disulfide | 1068 | 30 | 1000 | 0 | 107 | 45-160 | 0 | | | |
| Carbon tetrachloride | 1112 | 30 | 1000 | 0 | 111 | 65-135 | 0 | | | |
| Chlorobenzene | 936 | 30 | 1000 | 0 | 93.6 | 75-125 | 0 | | | |
| Chloroethane | 867.5 | 100 | 1000 | 0 | 86.8 | 40-155 | 0 | | | |
| Chloroform | 951.5 | 30 | 1000 | 0 | 95.2 | 70-125 | 0 | | | |
| Chloromethane | 842 | 100 | 1000 | 0 | 84.2 | 50-130 | 0 | | | |
| cis-1,2-Dichloroethene | 964.5 | 30 | 1000 | 0 | 96.4 | 65-125 | 0 | | | |
| cis-1,3-Dichloropropene | 995.5 | 30 | 1000 | 0 | 99.6 | 70-125 | 0 | | | |
| Dibromochloromethane | 881 | 30 | 1000 | 0 | 88.1 | 65-135 | 0 | | | |
| Dibromomethane | 968.5 | 30 | 1000 | 0 | 96.8 | 75-130 | 0 | | | |
| Dichlorodifluoromethane | 867 | 30 | 1000 | 0 | 86.7 | 35-135 | 0 | | | |
| Ethylbenzene | 958.5 | 30 | 1000 | 0 | 95.8 | 75-125 | 0 | | | |
| Hexachloroethane | 859.5 | 30 | 1000 | 0 | 86 | 70-135 | 0 | | | |
| Isopropylbenzene | 969.5 | 30 | 1000 | 0 | 97 | 75-130 | 0 | | | |
| m,p-Xylene | 1904 | 60 | 2000 | 0 | 95.2 | 80-125 | 0 | | | |
| Methyl tert-butyl ether | 1103 | 30 | 1000 | 0 | 110 | 75-125 | 0 | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

# QC BATCH REPORT

Batch ID: **46327** Instrument ID **VMS5** Method: **SW8260**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Methylene chloride | 950.5 | 30 | 1000 | 0 | 95 | 55-145 | 0 |
| Naphthalene | 944.5 | 100 | 1000 | 0 | 94.4 | 40-140 | 0 |
| n-Propylbenzene | 976 | 30 | 1000 | 0 | 97.6 | 65-135 | 0 |
| o-Xylene | 964 | 30 | 1000 | 0 | 96.4 | 75-125 | 0 |
| Styrene | 1004 | 30 | 1000 | 0 | 100 | 75-125 | 0 |
| Tetrachloroethene | 994 | 30 | 1000 | 0 | 99.4 | 64-140 | 0 |
| Toluene | 928.5 | 30 | 1000 | 0 | 92.8 | 70-125 | 0 |
| trans-1,2-Dichloroethene | 1010 | 30 | 1000 | 0 | 101 | 65-135 | 0 |
| trans-1,3-Dichloropropene | 957 | 30 | 1000 | 0 | 95.7 | 65-125 | 0 |
| trans-1,4-Dichloro-2-butene | 971.5 | 30 | 1000 | 0 | 97.2 | 70-135 | 0 |
| Trichloroethene | 987 | 30 | 1000 | 0 | 98.7 | 75-125 | 0 |
| Trichlorofluoromethane | 1100 | 30 | 1000 | 0 | 110 | 25-185 | 0 |
| Vinyl chloride | 962.5 | 30 | 1000 | 0 | 96.2 | 60-125 | 0 |
| Xylenes, Total | 2868 | 90 | 3000 | 0 | 95.6 | 75-125 | 0 |
| *Surr: 1,2-Dichloroethane-d4* | *860* | 0 | *1000* | 0 | *86* | *70-130* | 0 |
| *Surr: 4-Bromofluorobenzene* | *1032* | 0 | *1000* | 0 | *103* | *70-130* | 0 |
| *Surr: Dibromofluoromethane* | *940* | 0 | *1000* | 0 | *94* | *70-130* | 0 |
| *Surr: Toluene-d8* | *902* | 0 | *1000* | 0 | *90.2* | *70-130* | 0 |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302268
**Project:** Rock-Tenn Soil 2/5/13 - 2/6/13

# QC BATCH REPORT

Batch ID: **46327** Instrument ID **VMS5** Method: **SW8260**

**LCS** Sample ID: **LCS-46327-46327** Units: **µg/Kg** Analysis Date: **2/8/2013 10:40 PM**
Client ID: Run ID: **VMS5_130208B** SeqNo: **2212489** Prep Date: **2/8/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 923 | 30 | 1000 | 0 | 92.3 | 75-125 | 0 | | | |
| 1,1,1-Trichloroethane | 995 | 30 | 1000 | 0 | 99.5 | 70-135 | 0 | | | |
| 1,1,2,2-Tetrachloroethane | 967.5 | 30 | 1000 | 0 | 96.8 | 55-130 | 0 | | | |
| 1,1,2-Trichloroethane | 921 | 30 | 1000 | 0 | 92.1 | 60-125 | 0 | | | |
| 1,1-Dichloroethane | 978 | 30 | 1000 | 0 | 97.8 | 75-125 | 0 | | | |
| 1,1-Dichloroethene | 1032 | 30 | 1000 | 0 | 103 | 65-135 | 0 | | | |
| 1,2,3-Trichloropropane | 952 | 30 | 1000 | 0 | 95.2 | 65-130 | 0 | | | |
| 1,2,4-Trichlorobenzene | 918 | 30 | 1000 | 0 | 91.8 | 65-130 | 0 | | | |
| 1,2,4-Trimethylbenzene | 904.5 | 30 | 1000 | 0 | 90.4 | 65-135 | 0 | | | |
| 1,2-Dibromo-3-chloropropane | 878.5 | 30 | 1000 | 0 | 87.8 | 40-135 | 0 | | | |
| 1,2-Dibromoethane | 942.5 | 30 | 1000 | 0 | 94.2 | 70-125 | 0 | | | |
| 1,2-Dichlorobenzene | 874.5 | 30 | 1000 | 0 | 87.4 | 75-120 | 0 | | | |
| 1,2-Dichloroethane | 1051 | 30 | 1000 | 0 | 105 | 70-135 | 0 | | | |
| 1,2-Dichloropropane | 995.5 | 30 | 1000 | 0 | 99.6 | 70-120 | 0 | | | |
| 1,3,5-Trimethylbenzene | 954.5 | 30 | 1000 | 0 | 95.4 | 65-135 | 0 | | | |
| 1,3-Dichlorobenzene | 864.5 | 30 | 1000 | 0 | 86.4 | 70-125 | 0 | | | |
| 1,4-Dichlorobenzene | 868.5 | 30 | 1000 | 0 | 86.8 | 70-125 | 0 | | | |
| 2-Butanone | 852 | 200 | 1000 | 0 | 85.2 | 30-160 | 0 | | | |
| 2-Hexanone | 1056 | 30 | 1000 | 0 | 106 | 45-145 | 0 | | | |
| 4-Methyl-2-pentanone | 1026 | 30 | 1000 | 0 | 103 | 45-145 | 0 | | | |
| Acetone | 796 | 100 | 1000 | 0 | 79.6 | 20-160 | 0 | | | |
| Acrylonitrile | 906.5 | 100 | 1000 | 0 | 90.6 | 70-135 | 0 | | | |
| Benzene | 1014 | 30 | 1000 | 0 | 101 | 75-125 | 0 | | | |
| Bromochloromethane | 1011 | 30 | 1000 | 0 | 101 | 70-125 | 0 | | | |
| Bromodichloromethane | 990.5 | 30 | 1000 | 0 | 99 | 70-130 | 0 | | | |
| Bromomethane | 1119 | 75 | 1000 | 0 | 112 | 30-160 | 0 | | | |
| Carbon disulfide | 1109 | 30 | 1000 | 0 | 111 | 45-160 | 0 | | | |
| Carbon tetrachloride | 1040 | 30 | 1000 | 0 | 104 | 65-135 | 0 | | | |
| Chlorobenzene | 913 | 30 | 1000 | 0 | 91.3 | 75-125 | 0 | | | |
| Chloroethane | 952 | 100 | 1000 | 0 | 95.2 | 40-155 | 0 | | | |
| Chloroform | 998.5 | 30 | 1000 | 0 | 99.8 | 70-125 | 0 | | | |
| Chloromethane | 893 | 100 | 1000 | 0 | 89.3 | 50-130 | 0 | | | |
| cis-1,2-Dichloroethene | 990 | 30 | 1000 | 0 | 99 | 65-125 | 0 | | | |
| cis-1,3-Dichloropropene | 962.5 | 30 | 1000 | 0 | 96.2 | 70-125 | 0 | | | |
| Dibromochloromethane | 896.5 | 30 | 1000 | 0 | 89.6 | 65-135 | 0 | | | |
| Dibromomethane | 978 | 30 | 1000 | 0 | 97.8 | 75-130 | 0 | | | |
| Dichlorodifluoromethane | 662 | 30 | 1000 | 0 | 66.2 | 35-135 | 0 | | | |
| Ethylbenzene | 951.5 | 30 | 1000 | 0 | 95.2 | 75-125 | 0 | | | |
| Hexachloroethane | 873.5 | 30 | 1000 | 0 | 87.4 | 70-135 | 0 | | | |
| Isopropylbenzene | 954.5 | 30 | 1000 | 0 | 95.4 | 75-130 | 0 | | | |
| m,p-Xylene | 1876 | 60 | 2000 | 0 | 93.8 | 80-125 | 0 | | | |
| Methyl tert-butyl ether | 1076 | 30 | 1000 | 0 | 108 | 75-125 | 0 | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

# QC BATCH REPORT

Batch ID: **46327** Instrument ID **VMS5** Method: **SW8260**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Methylene chloride | 1072 | 30 | 1000 | 0 | 107 | 55-145 | 0 |
| Naphthalene | 885 | 100 | 1000 | 0 | 88.5 | 40-140 | 0 |
| n-Propylbenzene | 940 | 30 | 1000 | 0 | 94 | 65-135 | 0 |
| o-Xylene | 932.5 | 30 | 1000 | 0 | 93.2 | 75-125 | 0 |
| Styrene | 924 | 30 | 1000 | 0 | 92.4 | 75-125 | 0 |
| Tetrachloroethene | 945.5 | 30 | 1000 | 0 | 94.6 | 64-140 | 0 |
| Toluene | 925.5 | 30 | 1000 | 0 | 92.6 | 70-125 | 0 |
| trans-1,2-Dichloroethene | 1014 | 30 | 1000 | 0 | 101 | 65-135 | 0 |
| trans-1,3-Dichloropropene | 882 | 30 | 1000 | 0 | 88.2 | 65-125 | 0 |
| trans-1,4-Dichloro-2-butene | 914 | 30 | 1000 | 0 | 91.4 | 70-135 | 0 |
| Trichloroethene | 959.5 | 30 | 1000 | 0 | 96 | 75-125 | 0 |
| Trichlorofluoromethane | 992.5 | 30 | 1000 | 0 | 99.2 | 25-185 | 0 |
| Vinyl chloride | 940.5 | 30 | 1000 | 0 | 94 | 60-125 | 0 |
| Xylenes, Total | 2809 | 90 | 3000 | 0 | 93.6 | 75-125 | 0 |
| *Surr: 1,2-Dichloroethane-d4* | *996* | 0 | *1000* | 0 | *99.6* | *70-130* | 0 |
| *Surr: 4-Bromofluorobenzene* | *1048* | 0 | *1000* | 0 | *105* | *70-130* | 0 |
| *Surr: Dibromofluoromethane* | *980* | 0 | *1000* | 0 | *98* | *70-130* | 0 |
| *Surr: Toluene-d8* | *928* | 0 | *1000* | 0 | *92.8* | *70-130* | 0 |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302268
**Project:** Rock-Tenn Soil 2/5/13 - 2/6/13

# QC BATCH REPORT

Batch ID: **46327** Instrument ID **VMS5** Method: **SW8260**

**MS** Sample ID: **1302268-19A MS** Units: **µg/Kg** Analysis Date: **2/9/2013 07:30 AM**
Client ID: **RT-GB-23 (1-3')** Run ID: **VMS5_130208B** SeqNo: **2212492** Prep Date: **2/8/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 857.5 | 30 | 1000 | 0 | 85.8 | 75-125 | 0 | | | |
| 1,1,1-Trichloroethane | 949 | 30 | 1000 | 0 | 94.9 | 70-135 | 0 | | | |
| 1,1,2,2-Tetrachloroethane | 911 | 30 | 1000 | 0 | 91.1 | 55-130 | 0 | | | |
| 1,1,2-Trichloroethane | 914.5 | 30 | 1000 | 0 | 91.4 | 60-125 | 0 | | | |
| 1,1-Dichloroethane | 962.5 | 30 | 1000 | 0 | 96.2 | 75-125 | 0 | | | |
| 1,1-Dichloroethene | 985 | 30 | 1000 | 0 | 98.5 | 65-135 | 0 | | | |
| 1,2,3-Trichloropropane | 944 | 30 | 1000 | 0 | 94.4 | 65-130 | 0 | | | |
| 1,2,4-Trichlorobenzene | 849.5 | 30 | 1000 | 0 | 85 | 65-130 | 0 | | | |
| 1,2,4-Trimethylbenzene | 930.5 | 30 | 1000 | 56 | 87.4 | 65-135 | 0 | | | |
| 1,2-Dibromo-3-chloropropane | 842 | 30 | 1000 | 0 | 84.2 | 40-135 | 0 | | | |
| 1,2-Dibromoethane | 918.5 | 30 | 1000 | 0 | 91.8 | 70-125 | 0 | | | |
| 1,2-Dichlorobenzene | 844.5 | 30 | 1000 | 0 | 84.4 | 75-120 | 0 | | | |
| 1,2-Dichloroethane | 979 | 30 | 1000 | 0 | 97.9 | 70-135 | 0 | | | |
| 1,2-Dichloropropane | 983 | 30 | 1000 | 0 | 98.3 | 70-120 | 0 | | | |
| 1,3,5-Trimethylbenzene | 917.5 | 30 | 1000 | 25 | 89.2 | 65-135 | 0 | | | |
| 1,3-Dichlorobenzene | 837.5 | 30 | 1000 | 0 | 83.8 | 70-125 | 0 | | | |
| 1,4-Dichlorobenzene | 824.5 | 30 | 1000 | 0 | 82.4 | 70-125 | 0 | | | |
| 2-Butanone | 871.5 | 200 | 1000 | 0 | 87.2 | 30-160 | 0 | | | |
| 2-Hexanone | 953.5 | 30 | 1000 | 0 | 95.4 | 45-145 | 0 | | | |
| 4-Methyl-2-pentanone | 1022 | 30 | 1000 | 0 | 102 | 45-145 | 0 | | | |
| Acetone | 811.5 | 100 | 1000 | 0 | 81.2 | 20-160 | 0 | | | |
| Acrylonitrile | 892.5 | 100 | 1000 | 0 | 89.2 | 70-135 | 0 | | | |
| Benzene | 1022 | 30 | 1000 | 0 | 102 | 75-125 | 0 | | | |
| Bromochloromethane | 936.5 | 30 | 1000 | 0 | 93.6 | 70-125 | 0 | | | |
| Bromodichloromethane | 985.5 | 30 | 1000 | 0 | 98.6 | 70-130 | 0 | | | |
| Bromomethane | 1032 | 75 | 1000 | 0 | 103 | 30-160 | 0 | | | |
| Carbon disulfide | 1147 | 30 | 1000 | 0 | 115 | 45-160 | 0 | | | |
| Carbon tetrachloride | 1005 | 30 | 1000 | 0 | 100 | 65-135 | 0 | | | |
| Chlorobenzene | 891 | 30 | 1000 | 0 | 89.1 | 75-125 | 0 | | | |
| Chloroethane | 992.5 | 100 | 1000 | 0 | 99.2 | 40-155 | 0 | | | |
| Chloroform | 949 | 30 | 1000 | 0 | 94.9 | 70-125 | 0 | | | |
| Chloromethane | 975 | 100 | 1000 | 0 | 97.5 | 50-130 | 0 | | | |
| cis-1,2-Dichloroethene | 910 | 30 | 1000 | 0 | 91 | 65-125 | 0 | | | |
| cis-1,3-Dichloropropene | 953.5 | 30 | 1000 | 0 | 95.4 | 70-125 | 0 | | | |
| Dibromochloromethane | 847.5 | 30 | 1000 | 0 | 84.8 | 65-135 | 0 | | | |
| Dibromomethane | 931.5 | 30 | 1000 | 0 | 93.2 | 75-130 | 0 | | | |
| Dichlorodifluoromethane | 714 | 30 | 1000 | 0 | 71.4 | 35-135 | 0 | | | |
| Ethylbenzene | 916 | 30 | 1000 | 0 | 91.6 | 75-125 | 0 | | | |
| Hexachloroethane | 833.5 | 30 | 1000 | 0 | 83.4 | 70-135 | 0 | | | |
| Isopropylbenzene | 935.5 | 30 | 1000 | 0 | 93.6 | 75-130 | 0 | | | |
| m,p-Xylene | 1901 | 60 | 2000 | 90.5 | 90.5 | 80-125 | 0 | | | |
| Methyl tert-butyl ether | 1084 | 30 | 1000 | 0 | 108 | 75-125 | 0 | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

# QC BATCH REPORT

Batch ID: **46327** Instrument ID **VMS5** Method: **SW8260**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Methylene chloride | 985.5 | 30 | 1000 | 0 | 98.6 | 55-145 | 0 |
| Naphthalene | 914 | 100 | 1000 | 93.5 | 82 | 40-140 | 0 |
| n-Propylbenzene | 915.5 | 30 | 1000 | 0 | 91.6 | 65-135 | 0 |
| o-Xylene | 973.5 | 30 | 1000 | 65.5 | 90.8 | 75-125 | 0 |
| Styrene | 899.5 | 30 | 1000 | 0 | 90 | 75-125 | 0 |
| Tetrachloroethene | 916.5 | 30 | 1000 | 0 | 91.6 | 64-140 | 0 |
| Toluene | 943.5 | 30 | 1000 | 49 | 89.4 | 70-125 | 0 |
| trans-1,2-Dichloroethene | 984 | 30 | 1000 | 0 | 98.4 | 65-135 | 0 |
| trans-1,3-Dichloropropene | 831 | 30 | 1000 | 0 | 83.1 | 65-125 | 0 |
| trans-1,4-Dichloro-2-butene | 745.5 | 30 | 1000 | 0 | 74.6 | 70-135 | 0 |
| Trichloroethene | 943.5 | 30 | 1000 | 0 | 94.4 | 75-125 | 0 |
| Trichlorofluoromethane | 1002 | 30 | 1000 | 0 | 100 | 25-185 | 0 |
| Vinyl chloride | 989.5 | 30 | 1000 | 0 | 99 | 60-125 | 0 |
| Xylenes, Total | 2874 | 90 | 3000 | 156 | 90.6 | 75-125 | 0 |
| *Surr: 1,2-Dichloroethane-d4* | *914.5* | 0 | *1000* | 0 | *91.4* | *70-130* | 0 |
| *Surr: 4-Bromofluorobenzene* | *1038* | 0 | *1000* | 0 | *104* | *70-130* | 0 |
| *Surr: Dibromofluoromethane* | *970* | 0 | *1000* | 0 | *97* | *70-130* | 0 |
| *Surr: Toluene-d8* | *912* | 0 | *1000* | 0 | *91.2* | *70-130* | 0 |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302268
**Project:** Rock-Tenn Soil 2/5/13 - 2/6/13

# QC BATCH REPORT

Batch ID: **46327** Instrument ID **VMS5** Method: **SW8260**

**MSD** Sample ID: **1302268-19A MSD** Units: **µg/Kg** Analysis Date: **2/9/2013 07:54 AM**

Client ID: **RT-GB-23 (1-3')** Run ID: **VMS5_130208B** SeqNo: **2212493** Prep Date: **2/8/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 870.5 | 30 | 1000 | 0 | 87 | 75-125 | 857.5 | 1.5 | 30 | |
| 1,1,1-Trichloroethane | 940 | 30 | 1000 | 0 | 94 | 70-135 | 949 | 0.953 | 30 | |
| 1,1,2,2-Tetrachloroethane | 896.5 | 30 | 1000 | 0 | 89.6 | 55-130 | 911 | 1.6 | 30 | |
| 1,1,2-Trichloroethane | 928 | 30 | 1000 | 0 | 92.8 | 60-125 | 914.5 | 1.47 | 30 | |
| 1,1-Dichloroethane | 909 | 30 | 1000 | 0 | 90.9 | 75-125 | 962.5 | 5.72 | 30 | |
| 1,1-Dichloroethene | 981.5 | 30 | 1000 | 0 | 98.2 | 65-135 | 985 | 0.356 | 30 | |
| 1,2,3-Trichloropropane | 917 | 30 | 1000 | 0 | 91.7 | 65-130 | 944 | 2.9 | 30 | |
| 1,2,4-Trichlorobenzene | 894.5 | 30 | 1000 | 0 | 89.4 | 65-130 | 849.5 | 5.16 | 30 | |
| 1,2,4-Trimethylbenzene | 926 | 30 | 1000 | 56 | 87 | 65-135 | 930.5 | 0.485 | 30 | |
| 1,2-Dibromo-3-chloropropane | 840 | 30 | 1000 | 0 | 84 | 40-135 | 842 | 0.238 | 30 | |
| 1,2-Dibromoethane | 914 | 30 | 1000 | 0 | 91.4 | 70-125 | 918.5 | 0.491 | 30 | |
| 1,2-Dichlorobenzene | 856.5 | 30 | 1000 | 0 | 85.6 | 75-120 | 844.5 | 1.41 | 30 | |
| 1,2-Dichloroethane | 968 | 30 | 1000 | 0 | 96.8 | 70-135 | 979 | 1.13 | 30 | |
| 1,2-Dichloropropane | 964.5 | 30 | 1000 | 0 | 96.4 | 70-120 | 983 | 1.9 | 30 | |
| 1,3,5-Trimethylbenzene | 945.5 | 30 | 1000 | 25 | 92 | 65-135 | 917.5 | 3.01 | 30 | |
| 1,3-Dichlorobenzene | 849 | 30 | 1000 | 0 | 84.9 | 70-125 | 837.5 | 1.36 | 30 | |
| 1,4-Dichlorobenzene | 828.5 | 30 | 1000 | 0 | 82.8 | 70-125 | 824.5 | 0.484 | 30 | |
| 2-Butanone | 763 | 200 | 1000 | 0 | 76.3 | 30-160 | 871.5 | 13.3 | 30 | |
| 2-Hexanone | 874.5 | 30 | 1000 | 0 | 87.4 | 45-145 | 953.5 | 8.64 | 30 | |
| 4-Methyl-2-pentanone | 1012 | 30 | 1000 | 0 | 101 | 45-145 | 1022 | 1.03 | 30 | |
| Acetone | 628 | 100 | 1000 | 0 | 62.8 | 20-160 | 811.5 | 25.5 | 30 | |
| Acrylonitrile | 830.5 | 100 | 1000 | 0 | 83 | 70-135 | 892.5 | 7.2 | 30 | |
| Benzene | 968 | 30 | 1000 | 0 | 96.8 | 75-125 | 1022 | 5.38 | 30 | |
| Bromochloromethane | 961 | 30 | 1000 | 0 | 96.1 | 70-125 | 936.5 | 2.58 | 30 | |
| Bromodichloromethane | 945 | 30 | 1000 | 0 | 94.5 | 70-130 | 985.5 | 4.2 | 30 | |
| Bromomethane | 852.5 | 75 | 1000 | 0 | 85.2 | 30-160 | 1032 | 19 | 30 | |
| Carbon disulfide | 1048 | 30 | 1000 | 0 | 105 | 45-160 | 1147 | 9.07 | 30 | |
| Carbon tetrachloride | 974 | 30 | 1000 | 0 | 97.4 | 65-135 | 1005 | 3.13 | 30 | |
| Chlorobenzene | 862 | 30 | 1000 | 0 | 86.2 | 75-125 | 891 | 3.31 | 30 | |
| Chloroethane | 920.5 | 100 | 1000 | 0 | 92 | 40-155 | 992.5 | 7.53 | 30 | |
| Chloroform | 921.5 | 30 | 1000 | 0 | 92.2 | 70-125 | 949 | 2.94 | 30 | |
| Chloromethane | 905 | 100 | 1000 | 0 | 90.5 | 50-130 | 975 | 7.45 | 30 | |
| cis-1,2-Dichloroethene | 867.5 | 30 | 1000 | 0 | 86.8 | 65-125 | 910 | 4.78 | 30 | |
| cis-1,3-Dichloropropene | 902.5 | 30 | 1000 | 0 | 90.2 | 70-125 | 953.5 | 5.5 | 30 | |
| Dibromochloromethane | 812.5 | 30 | 1000 | 0 | 81.2 | 65-135 | 847.5 | 4.22 | 30 | |
| Dibromomethane | 918.5 | 30 | 1000 | 0 | 91.8 | 75-130 | 931.5 | 1.41 | 30 | |
| Dichlorodifluoromethane | 666 | 30 | 1000 | 0 | 66.6 | 35-135 | 714 | 6.96 | 30 | |
| Ethylbenzene | 909.5 | 30 | 1000 | 0 | 91 | 75-125 | 916 | 0.712 | 30 | |
| Hexachloroethane | 849.5 | 30 | 1000 | 0 | 85 | 70-135 | 833.5 | 1.9 | 30 | |
| Isopropylbenzene | 938.5 | 30 | 1000 | 0 | 93.8 | 75-130 | 935.5 | 0.32 | 30 | |
| m,p-Xylene | 1828 | 60 | 2000 | 90.5 | 86.9 | 80-125 | 1901 | 3.92 | 30 | |
| Methyl tert-butyl ether | 1009 | 30 | 1000 | 0 | 101 | 75-125 | 1084 | 7.17 | 30 | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

# QC BATCH REPORT

Batch ID: **46327** Instrument ID **VMS5** Method: **SW8260**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Methylene chloride | 955.5 | 30 | 1000 | 0 | 95.6 | 55-145 | 985.5 | 3.09 | 30 |
| Naphthalene | 972 | 100 | 1000 | 93.5 | 87.8 | 40-140 | 914 | 6.15 | 30 |
| n-Propylbenzene | 914 | 30 | 1000 | 0 | 91.4 | 65-135 | 915.5 | 0.164 | 30 |
| o-Xylene | 939 | 30 | 1000 | 65.5 | 87.4 | 75-125 | 973.5 | 3.61 | 30 |
| Styrene | 891 | 30 | 1000 | 0 | 89.1 | 75-125 | 899.5 | 0.949 | 30 |
| Tetrachloroethene | 910 | 30 | 1000 | 0 | 91 | 64-140 | 916.5 | 0.712 | 30 |
| Toluene | 910.5 | 30 | 1000 | 49 | 86.2 | 70-125 | 943.5 | 3.56 | 30 |
| trans-1,2-Dichloroethene | 905 | 30 | 1000 | 0 | 90.5 | 65-135 | 984 | 8.36 | 30 |
| trans-1,3-Dichloropropene | 775 | 30 | 1000 | 0 | 77.5 | 65-125 | 831 | 6.97 | 30 |
| trans-1,4-Dichloro-2-butene | 755.5 | 30 | 1000 | 0 | 75.6 | 70-135 | 745.5 | 1.33 | 30 |
| Trichloroethene | 921.5 | 30 | 1000 | 0 | 92.2 | 75-125 | 943.5 | 2.36 | 30 |
| Trichlorofluoromethane | 970 | 30 | 1000 | 0 | 97 | 25-185 | 1002 | 3.3 | 30 |
| Vinyl chloride | 922.5 | 30 | 1000 | 0 | 92.2 | 60-125 | 989.5 | 7.01 | 30 |
| Xylenes, Total | 2767 | 90 | 3000 | 156 | 87 | 75-125 | 2874 | 3.81 | 30 |
| *Surr: 1,2-Dichloroethane-d4* | *905* | 0 | *1000* | 0 | *90.5* | *70-130* | 914.5 | *1.04* | *30* |
| *Surr: 4-Bromofluorobenzene* | *1064* | 0 | *1000* | 0 | *106* | *70-130* | 1038 | *2.52* | *30* |
| *Surr: Dibromofluoromethane* | *950.5* | 0 | *1000* | 0 | *95* | *70-130* | 970 | *2.03* | *30* |
| *Surr: Toluene-d8* | *916* | 0 | *1000* | 0 | *91.6* | *70-130* | 912 | *0.438* | *30* |

**The following samples were analyzed in this batch:** 1302268-19A 1302268-39A

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302268
**Project:** Rock-Tenn Soil 2/5/13 - 2/6/13

# QC BATCH REPORT

Batch ID: **R116098** Instrument ID **MOIST** Method: **A2540 G**

**MBLK** Sample ID: **WBLKS1-R116098** Units: **% of sample** Analysis Date: **2/10/2013 12:45 PM**
Client ID: Run ID: **MOIST_130210A** SeqNo: **2212619** Prep Date: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Moisture | ND | 0.050 | | | | | | | | |

**LCS** Sample ID: **LCS-R116098** Units: **% of sample** Analysis Date: **2/10/2013 12:45 PM**
Client ID: Run ID: **MOIST_130210A** SeqNo: **2212618** Prep Date: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Moisture | 100 | 0.050 | 100 | 0 | 100 | 99.5-100.5 | 0 | | | |

**DUP** Sample ID: **1302268-05BDUP** Units: **% of sample** Analysis Date: **2/10/2013 12:45 PM**
Client ID: **RT-GB-12 (3-5')** Run ID: **MOIST_130210A** SeqNo: **2212600** Prep Date: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Moisture | 3.38 | 0.050 | 0 | 0 | 0 | 0-0 | 3.34 | 1.19 | 20 | |

**DUP** Sample ID: **1302268-14BDUP1** Units: **% of sample** Analysis Date: **2/10/2013 12:45 PM**
Client ID: **RT-GB-19 (8-10')** Run ID: **MOIST_130210A** SeqNo: **2212610** Prep Date: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Moisture | 26.75 | 0.050 | 0 | 0 | 0 | 0-0 | 23.62 | 12.4 | 20 | |

**DUP** Sample ID: **1302268-14BDUP2** Units: **% of sample** Analysis Date: **2/10/2013 12:45 PM**
Client ID: **RT-GB-19 (8-10')** Run ID: **MOIST_130210A** SeqNo: **2212611** Prep Date: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Moisture | 22.16 | 0.050 | 0 | 0 | 0 | 0-0 | 23.62 | 6.38 | 20 | |

**The following samples were analyzed in this batch:**

| | | |
|---|---|---|
| 1302268-01B | 1302268-02B | 1302268-03B |
| 1302268-04B | 1302268-05B | 1302268-06B |
| 1302268-07B | 1302268-08B | 1302268-09B |
| 1302268-10B | 1302268-11B | 1302268-12B |
| 1302268-13B | 1302268-14B | 1302268-15B |
| 1302268-16B | 1302268-17B | 1302268-18B |
| 1302268-19B | 1302268-20A | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302268
**Project:** Rock-Tenn Soil 2/5/13 - 2/6/13

# QC BATCH REPORT

Batch ID: **R116148** Instrument ID **MOIST** Method: **A2540 G**

**MBLK** Sample ID: **WBLKS1-R116148** Units: **% of sample** Analysis Date: **2/11/2013 01:20 PM**
Client ID: Run ID: **MOIST_130211A** SeqNo: **2213608** Prep Date: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Moisture | ND | 0.050 | | | | | | | | |

**LCS** Sample ID: **LCS-R116148** Units: **% of sample** Analysis Date: **2/11/2013 01:20 PM**
Client ID: Run ID: **MOIST_130211A** SeqNo: **2213604** Prep Date: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Moisture | 100 | 0.050 | 100 | 0 | 100 | 99.5-100.5 | 0 | | | |

**DUP** Sample ID: **1302268-21ADUP** Units: **% of sample** Analysis Date: **2/11/2013 01:20 PM**
Client ID: **RT-GB-24 (4-5')** Run ID: **MOIST_130211A** SeqNo: **2213582** Prep Date: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Moisture | 6.94 | 0.050 | 0 | 0 | 0 | 0-0 | 6.84 | 1.45 | 20 | |

**DUP** Sample ID: **1302268-35ADUP** Units: **% of sample** Analysis Date: **2/11/2013 01:20 PM**
Client ID: **RT-GB-31 (4-5')** Run ID: **MOIST_130211A** SeqNo: **2213598** Prep Date: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Moisture | 7.79 | 0.050 | 0 | 0 | 0 | 0-0 | 7.73 | 0.773 | 20 | |

**The following samples were analyzed in this batch:**

| | | |
|---|---|---|
| 1302268-21A | 1302268-22A | 1302268-23A |
| 1302268-24A | 1302268-25A | 1302268-26A |
| 1302268-27A | 1302268-28A | 1302268-29A |
| 1302268-30A | 1302268-31A | 1302268-32A |
| 1302268-33A | 1302268-34A | 1302268-35A |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302268
**Project:** Rock-Tenn Soil 2/5/13 - 2/6/13

# QC BATCH REPORT

Batch ID: **R116214** Instrument ID **MOIST** Method: **A2540 G**

**MBLK** Sample ID: **WBLKS1-R116214** Units: **% of sample** Analysis Date: **2/12/2013**
Client ID: Run ID: **MOIST_130212C** SeqNo: **2214559** Prep Date: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Moisture | ND | 0.050 | | | | | | | | |

**LCS** Sample ID: **LCS-R116214** Units: **% of sample** Analysis Date: **2/12/2013**
Client ID: Run ID: **MOIST_130212C** SeqNo: **2214555** Prep Date: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Moisture | 100 | 0.050 | 100 | 0 | 100 | 99.5-100.5 | 0 | | | |

**DUP** Sample ID: **1302270-04ADUP** Units: **% of sample** Analysis Date: **2/12/2013**
Client ID: Run ID: **MOIST_130212C** SeqNo: **2214541** Prep Date: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Moisture | 32.23 | 0.050 | 0 | 0 | 0 | 0-0 | 29.45 | 9.01 | 20 | |

**DUP** Sample ID: **1302273-03ADUP** Units: **% of sample** Analysis Date: **2/12/2013**
Client ID: Run ID: **MOIST_130212C** SeqNo: **2214553** Prep Date: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Moisture | 22.26 | 0.050 | 0 | 0 | 0 | 0-0 | 22.66 | 1.78 | 20 | |

**The following samples were analyzed in this batch:** 1302268-36A 1302268-37A 1302268-38A

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

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# Chain of Custody Form

Page 1 of 5

COC ID: 70110

ALS Project Manager: | ALS Work Order #: 1302268

| Customer Information | | Project Information | | Parameter/Method Request for Analysis | |
|---|---|---|---|---|---|
| Purchase Order | | Project Name | Rock Tenn Site | A | MDEQ Plus Volatiles |
| Work Order | | Project Number | | B | TCL List Semi-Volatiles |
| Company Name | ECT, Inc | Bill To Company | ECT, Inc | C | MI 10 Metals Plus, B, Mg, Fe, Tl |
| Send Report To | John D'Addona | Invoice Attn | John D'Addona | D | PCBs |
| Address | 2200 Commonwealth Blvd Suite 300 | Address | 2200 Commonwealth Blvd Suite 300 | E | BTEX, TMBs -Light Distillate Oil |
| | | | | F | PNAs-Light Distillate Oil |
| City/State/Zip | Ann Arbor, MI 48105 | City/State/Zip | Ann Arbor, MI 48105 | G | % Moisture |
| Phone | (734) 769-3004 | Phone | (734) 769-3004 | H | This sample point needs MS/MSD |
| Fax | (734) 769-3164 | Fax | (734) 769-3164 | I | |
| e-Mail Address | | e-Mail Address | | J | |

| No. | Sample Description | Date | Time | Matrix | Pres. | # Bottles | A | B | C | D | E | F | G | H | I | J | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | RT-GB-8 (9-10') | 2/5/13 | 1410 | Soil | MeOH | 3 | X | X | X | | | | X | | | | |
| 2 | RT-GB-9 (12-13') | ↓ | 1450 | | | | | | | | X | X | | | | | |
| 3 | RT-GB-10 (7-8') | 2/6/13 | 0900 | | | | | | | | | | | | | | |
| 4 | RT-GB-11 (4-5') | | 0920 | | | | | | | | | | | | | | |
| 5 | RT-GB-12 (3-5') | | 0955 | | | | X | X | | | | | X | | | | |
| 6 | RT-GB-13 (3-5') | | 1015 | | | | | | | | | | | | | | |
| 7 | RT-GB-14 (1-2') | | 1025 | | | | | | | | | | | | | | |
| 8 | RT-GB-15 (0.5-1') | | 1045 | | | | X | X | X | | | | X | | | | Normal B, Mg, Fe, Tl |
| 9 | RT-GB-15 (0.5-1') Dup | | 1045 | | | | | | | | | | | | | | Dup B, Mg, Fe, Tl |
| 10 | RT-GB-16 (0.5-1') | | 1130 | | | | | | | | | | | | | | |

Sampler(s) Please Print & Sign: Jason Bartholomew

Shipment Method: cooler

Required Turnaround Time: (Check Box) ☐ Std 10 WK Days ☑ 5 WK Days ☐ 2 WK Days ☐ 24 Hour ☐ Other

Results Due Date:

| | | | | |
|---|---|---|---|---|
| Relinquished by: | Date: 2/7/13 | Time: 1620 | Received by: | |
| Relinquished by: | Date: 2/7/13 | Time: 1730 | Received by (Laboratory): | |
| Logged by (Laboratory): KJ | Date: 2/8/13 | Time: 1100 | Checked by (Laboratory): | |

Notes:

| Cooler ID | Cooler Temp. |
|---|---|
| | 3.2°C |
| | |
| | |

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP CheckList
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other

Preservative Key: 1-HCl 2-$HNO_3$ 3-$H_2SO_4$ 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

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# Chain of Custody Form



COC ID: 70111

ALS Project Manager: | ALS Work Order #: 1302208

| Customer Information | | Project Information | | Parameter/Method Request for Analysis | |
|---|---|---|---|---|---|
| Purchase Order | | Project Name | Rock Tenn Site | A | MDEQ Plus Volatiles |
| Work Order | | Project Number | | B | TCL List Semi-Volatiles |
| Company Name | ECT, Inc | Bill To Company | ECT, Inc | C | MI 10 Metals Plus, B, Mg, Fe, Tl |
| Send Report To | John D'Addona | Invoice Attn | John D'Addona | D | PCBs |
| Address | 2200 Commonwealth Blvd Suite 300 | Address | 2200 Commonwealth Blvd Suite 300 | E | BTEX, TMBs -Light Distillate Oil |
| | | | | F | PNAs-Light Distillate Oil |
| City/State/Zip | Ann Arbor, MI 48105 | City/State/Zip | Ann Arbor, MI 48105 | G | % Moisture |
| Phone | (734) 769-3004 | Phone | (734) 769-3004 | H | This sample point needs MS/MSD |
| Fax | (734) 769-3164 | Fax | (734) 769-3164 | I | |
| e-Mail Address | | e-Mail Address | | J | |

| No. | Sample Description | Date | Time | Matrix | Pres. | # Bottles | A | B | C | D | E | F | G | H | I | J | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | RT-GB-16 (8-9') -11 | 2/6/13 | 1135 | SOIL | MeOH | 3 | X | X | | | | | X | | | | |
| 2 | RT-GB-17 (1-2') -12 | | 1205 | | | | X | X | X | X | | | X | | | | |
| 3 | RT-GB-18 (3-5') -13 | | 1230 | | | | X | X | X | X | | | X | | | | |
| 4 | RT-GB-19 (8-10') -14 | | 1255 | | | | X | X | X | X | | | X | | | | No MS B, Mg, Fe, Tl |
| 5 | RT-GB-19 (8-10') MS -14 | | 1255 | | | | X | X | X | X | | | X | | | | |
| 6 | RT-GB-19 (8-10') MSD -14 | | 1255 | | | | X | X | X | X | | | X | | | | |
| 7 | RT-GB-20 (1-3') -15 | | 1420 | | | | X | X | X | X | X | X | X | | | | |
| 8 | RT-GB-21 (1-3') -16 | | 1435 | | | | X | X | X | X | X | X | X | | | | |
| 9 | RT-GB-22 (3-5') -17 | | 1450 | | | | X | X | X | X | X | X | X | | | | |
| 10 | RT-GB-22 (3-5') Dup -18 | | 1450 | | | | X | X | X | X | X | X | X | | | | |

Sampler(s) Please Print & Sign: Jason Bartholomew

Shipment Method: cooler

Required Turnaround Time: (Check Box) ☐ Std 10 WK Days ☑ 5 WK Days ☐ 2 WK Days ☐ 24 Hour ☐ Other

Results Due Date:

| Relinquished by: | Date: | Time: | Received by: |
|---|---|---|---|
| | 2/7/13 | 1620 | |
| Relinquished by: | Date: | Time: | Received by (Laboratory): |
| | 2/7/13 | 1730 | |
| Logged by (Laboratory): KR | Date: 2/8/13 | Time: 1100 | Checked by (Laboratory): |

Notes:

| Cooler ID | Cooler Temp. |
|---|---|
| | 3.2°C |

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ Level III Std QC/Raw Data ☐ Level IV SW846/CLP ☐ TRRP CheckList ☐ TRRP Level IV ☐ Other

Preservative Key: 1-HCl 2-$HNO_3$ 3-$H_2SO_4$ 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

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# Chain of Custody Form



COC ID: 70113

ALS Project Manager: | ALS Work Order #: 1302268

| Customer Information | | Project Information | | Parameter/Method Request for Analysis | |
|---|---|---|---|---|---|
| Purchase Order | | Project Name | Rock Tenn Site | A | MDEQ Plus Volatiles |
| Work Order | | Project Number | | B | TCL List Semi-Volatiles |
| Company Name | ECT, Inc | Bill To Company | ECT, Inc | C | MI 10 Metals Plus, B, Mg, Fe, Ti |
| Send Report To | John D'Addona | Invoice Attn | John D'Addona | D | PCBs |
| Address | 2200 Commonwealth Blvd<br>Suite 300 | Address | 2200 Commonwealth Blvd<br>Suite 300 | E | BTEX, TMBs -Light Distillate Oil |
| | | | | F | PNAs-Light Distillate Oil |
| City/State/Zip | Ann Arbor, MI 48105 | City/State/Zip | Ann Arbor, MI 48105 | G | % Moisture |
| Phone | (734) 769-3004 | Phone | (734) 769-3004 | H | This sample point needs MS/MSD |
| Fax | (734) 769-3164 | Fax | (734) 769-3164 | I | |
| e-Mail Address | | e-Mail Address | | J | |

| No. | Sample Description | Date | Time | Matrix | Pres. | # Bottles | A | B | C | D | E | F | G | H | I | J | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | RT-GB-23 (1-3') -19 | 2/6/13 | 1510 | soil | MeOH | 3 | | | | | X | X | X | | | | |
| 2 | RT-GB-24 (0.5-1') -20 | | 1555 | | - | 1 | | | | X | | | X | | | | |
| 3 | RT-GB-24 (4-5') -21 | | 1600 | | | | | | | | | | | | | | X |
| 4 | RT-GB-25 (0.5-1') -22 | | 1610 | | | | | | | X | | | X | | | | |
| 5 | RT-GB-25 (4-5') -23 | | 1615 | | | | | | | | | | | | | | X |
| 6 | RT-GB-25 (4-5') dup -24 | | 1615 | | | | | | | | | | | | | | X |
| 7 | RT-GB-26 (0.5-1') -25 | | 1625 | | | | | | | X | | | X | | | | |
| 8 | RT-GB-26 (4-5') -26 | | 1630 | | | | | | | | | | | | | | X |
| 9 | RT-GB-27 (0.5-1') -27 | | 1640 | | | | | | | X | | | X | | | | |
| 10 | RT-GB-27 (4-5') -28 | | 1645 | | | | | | | | | | | | | | X |

Sampler(s) Please Print & Sign: Jason Bartholomew

Shipment Method: cooler

Required Turnaround Time: (Check Box) ☐ Std 10 WK Days ☑ 5 WK Days ☐ 2 WK Days ☐ 24 Hour ☐ Other _____

Results Due Date:

| | | | |
|---|---|---|---|
| Relinquished by: | Date: 2/7/13 | Time: 1620 | Received by: |
| Relinquished by: | Date: 2/7/13 | Time: 1730 | Received by (Laboratory): |
| Logged by (Laboratory): KRJ | Date: 2/8/13 | Time: 1100 | Checked by (Laboratory): |

Notes:

| Cooler ID | Cooler Temp. |
|---|---|
| | 3.2°C |

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP CheckList
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other _____

Preservative Key: 1-HCl 2-$HNO_3$ 3-$H_2SO_4$ 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

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# Chain of Custody Form



COC ID: 70118

ALS Project Manager: | ALS Work Order #: 1302268

| Customer Information | | Project Information | | Parameter/Method Request for Analysis | |
|---|---|---|---|---|---|
| Purchase Order | | Project Name | Rock Tenn Site | A | MDEQ Plus Volatiles |
| Work Order | | Project Number | | B | TCL List Semi-Volatiles |
| Company Name | ECT, Inc | Bill To Company | ECT, Inc | C | MI 10 Metals Plus, B, Mg, Fe, Tl |
| Send Report To | John D'Addona | Invoice Attn | John D'Addona | D | PCBs |
| Address | 2200 Commonwealth Blvd Suite 300 | Address | 2200 Commonwealth Blvd Suite 300 | E | BTEX, TMBs -Light Distillate Oil |
| | | | | F | PNAs-Light Distillate Oil |
| City/State/Zip | Ann Arbor, MI 48105 | City/State/Zip | Ann Arbor, MI 48105 | G | % Moisture |
| Phone | (734) 769-3004 | Phone | (734) 769-3004 | H | This sample point needs MS/MSD |
| Fax | (734) 769-3164 | Fax | (734) 769-3164 | I | |
| e-Mail Address | | e-Mail Address | | J | |

| No. | Sample Description | Date | Time | Matrix | Pres. | # Bottles | A | B | C | D | E | F | G | H | I | J | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | RT-GB-28(0.5-1') -29 | 2/6/13 | 1650 | soil | - | 1 | | | | X | | | X | | | | |
| 2 | RT-GB-28 (4-5') -30 | | 1655 | | | | | | | | | | | | | | X |
| 3 | RT-GB-29 (0.5-1') -31 | | 1705 | | | | | | | X | | | X | | | | |
| 4 | RT-GB-29 (4-5') -32 | | 1710 | | | | | | | | | | | | | | X |
| 5 | RT-GB-30 (4-5') -33 | | 1715 | | | | | | | | | | | | | | X |
| 6 | RT-GB-30 (0.5-1') -34 | | 1720 | | | | | | | X | | | X | | | | |
| 7 | RT-GB-31 (4-5') -35 | | 1725 | | | | | | | | | | | | | | X |
| 8 | RT-GB-31 (0.5-1') -36 | | 1730 | | | | | | | X | | | X | | | | |
| 9 | RT-GB-32 (0.5-1') -37 | | 1730 | | | | | | | X | | | X | | | | |
| 10 | RT-GB-32 (4-5') -38 | | 1735 | | | | | | | | | | | | | | X |

Sampler(s) Please Print & Sign: Jason Bartholomew, Jon Bartholomew

Shipment Method: cooler

Required Turnaround Time: (Check Box) ☐ Std 10 WK Days ☑ 5 WK Days ☐ 2 WK Days ☐ 24 Hour ☐ Other _____

Results Due Date:

| | Date: | Time: | |
|---|---|---|---|
| Relinquished by: Jon Bartholomew | 2/7/13 | 1620 | Received by: |
| Relinquished by: | 2/7/13 | 1730 | Received by (Laboratory): |
| Logged by (Laboratory): KW | 2/8/13 | 1100 | Checked by (Laboratory): |

Notes:

| Cooler ID | Cooler Temp. |
|---|---|
| | 3.2°C |
| | |
| | |

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP CheckList
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other _____

Preservative Key: 1-HCl 2-$HNO_3$ 3-$H_2SO_4$ 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

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Everett, WA +1 425 356 2600 | Holland, MI +1 616 399 6070 | Middletown, PA +1 717 944 5541 | Salt Lake City, UT +1 801 266 7700 | York, PA +1 717 505 5280


# Chain of Custody Form



COC ID: 70119

ALS Project Manager: | ALS Work Order #: 1302268

| Customer Information | | Project Information | | Parameter/Method Request for Analysis | |
|---|---|---|---|---|---|
| Purchase Order | | Project Name | Rock Tenn Site | A | MDEQ Plus Volatiles |
| Work Order | | Project Number | | B | TCL List Semi-Volatiles |
| Company Name | ECT, Inc | Bill To Company | ECT, Inc | C | MI 10 Metals Plus, B, Mg, Fe, Tl |
| Send Report To | John D'Addona | Invoice Attn | John D'Addona | D | PCBs |
| Address | 2200 Commonwealth Blvd<br>Suite 300 | Address | 2200 Commonwealth Blvd<br>Suite 300 | E | BTEX, TMBs -Light Distillate Oil |
| | | | | F | PNAs-Light Distillate Oil |
| City/State/Zip | Ann Arbor, MI 48105 | City/State/Zip | Ann Arbor, MI 48105 | G | % Moisture |
| Phone | (734) 769-3004 | Phone | (734) 769-3004 | H | This sample point needs MS/MSD |
| Fax | (734) 769-3164 | Fax | (734) 769-3164 | I | |
| e-Mail Address | | e-Mail Address | | J | |

| No. | Sample Description | Date | Time | Matrix | Pres. | # Bottles | A | B | C | D | E | F | G | H | I | J | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | RT-EB-32 (4-5') MS -38 | 2/6/13 | 1735 | soil | — | 1 | | | | | | | | | | | X |
| 2 | RT-EB-32 (4-5') MSD -38 | ↓ | ↓ | ↓ | — | 1 | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |

Sampler(s) Please Print & Sign: Jason Bartholomew Jason Bartholomew

Shipment Method: Cooler

Required Turnaround Time: (Check Box) ☐ Other ☑ Std 10 WK Days ☑ 5 WK Days ☐ 2 WK Days ☐ 24 Hour

Results Due Date:

| | | | | |
|---|---|---|---|---|
| Relinquished by: | Date: 2/7/13 | Time: 1620 | Received by: | Notes: |
| Relinquished by: | Date: 2/7/13 | Time: 1730 | Received by (Laboratory): | |
| Logged by (Laboratory): KRJ | Date: 2/8/13 | Time: 1100 | Checked by (Laboratory): | |

| Cooler ID | Cooler Temp. |
|---|---|
| | 3.2°C |

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP CheckList
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other

Preservative Key: 1-HCl 2-$HNO_3$ 3-$H_2SO_4$ 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

ALS Group USA, Corp

## Sample Receipt Checklist

Client Name: **ECT-AA** Date/Time Received: **07-Feb-13 17:30**

Work Order: **1302268** Received by: **KRW**

Checklist completed by Keith Wierenga (eSignature) 08-Feb-13 (Date) Reviewed by: Ann Preston (eSignature) 14-Feb-13 (Date)

Matrices: Soil
Carrier name: ALSHN

| | | | |
|---|---|---|---|
| Shipping container/cooler in good condition? | Yes ☑ | No ☐ | Not Present ☐ |
| Custody seals intact on shipping container/cooler? | Yes ☐ | No ☐ | Not Present ☑ |
| Custody seals intact on sample bottles? | Yes ☐ | No ☐ | Not Present ☑ |
| Chain of custody present? | Yes ☑ | No ☐ | |
| Chain of custody signed when relinquished and received? | Yes ☑ | No ☐ | |
| Chain of custody agrees with sample labels? | Yes ☑ | No ☐ | |
| Samples in proper container/bottle? | Yes ☑ | No ☐ | |
| Sample containers intact? | Yes ☑ | No ☐ | |
| Sufficient sample volume for indicated test? | Yes ☑ | No ☐ | |
| All samples received within holding time? | Yes ☑ | No ☐ | |
| Container/Temp Blank temperature in compliance? | Yes ☑ | No ☐ | |
| Temperature(s)/Thermometer(s): | 3.2 C | | |
| Cooler(s)/Kit(s): | | | |
| Date/Time sample(s) sent to storage: | 2/8/2013 11:24:43 AM | | |
| Water - VOA vials have zero headspace? | Yes ☐ | No ☐ | No VOA vials submitted ☑ |
| Water - pH acceptable upon receipt? | Yes ☐ | No ☐ | N/A ☑ |
| pH adjusted? | Yes ☐ | No ☐ | N/A ☑ |
| pH adjusted by: | | | |

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

14-Feb-2013

John D`Addona
ECT, Inc
2200 Commonwealth Blvd
Suite 300
Ann Arbor, MI 48105

Re: **Rock-Tenn 2/6/13** Work Order: **1302259**

Dear John,

ALS Environmental received 6 samples on 07-Feb-2013 05:30 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 44.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Ann Preston

Electronically approved by: Ann Preston

Ann Preston
Project Manager

Certificate No: MN331938

# ALS Group USA, Corp

Date: 14-Feb-13

**Client:** ECT, Inc
**Project:** Rock-Tenn 2/6/13
**Work Order:** **1302259**

## Work Order Sample Summary

| Lab Samp ID | Client Sample ID | Matrix | Tag Number | Collection Date | Date Received | Hold |
|---|---|---|---|---|---|---|
| 1302259-01 | RTGB-1-W | Water | | 2/6/2013 10:20 | 2/7/2013 17:30 | ☐ |
| 1302259-02 | RTGB-2-W | Water | | 2/6/2013 12:05 | 2/7/2013 17:30 | ☐ |
| 1302259-03 | RTGB-3-W | Water | | 2/6/2013 13:40 | 2/7/2013 17:30 | ☐ |
| 1302259-04 | RTGB-4-W | Water | | 2/6/2013 15:00 | 2/7/2013 17:30 | ☐ |
| 1302259-05 | RTGB-5-W | Water | | 2/6/2013 16:30 | 2/7/2013 17:30 | ☐ |
| 1302259-06 | Trip Blank | Water | | 2/6/2013 | 2/7/2013 17:30 | ☐ |

## ALS Group USA, Corp

*Date: 14-Feb-13*

**Client:** ECT, Inc
**Project:** Rock-Tenn 2/6/13
**Work Order:** 1302259

# Case Narrative

Batch R116087A MS/MSD data for Volatiles is not related to this project's samples. No data requires qualification.

Batch 46334 MS/MSD data for Semi-Volatiles is not related to this project's samples. No data requires qualification.

# ALS Group USA, Corp

Date: 14-Feb-13

**Client:** ECT, Inc
**Project:** Rock-Tenn 2/6/13
**WorkOrder:** **1302259**

## QUALIFIERS, ACRONYMS, UNITS

| Qualifier | Description |
|---|---|
| * | Value exceeds Regulatory Limit |
| a | Not accredited |
| B | Analyte detected in the associated Method Blank above the Reporting Limit |
| E | Value above quantitation range |
| H | Analyzed outside of Holding Time |
| J | Analyte detected below quantitation limit |
| n | Not offered for accreditation |
| ND | Not Detected at the Reporting Limit |
| O | Sample amount is > 4 times amount spiked |
| P | Dual Column results percent difference > 40% |
| R | RPD above laboratory control limit |
| S | Spike Recovery outside laboratory control limits |
| U | Analyzed but not detected above the MDL |

| Acronym | Description |
|---|---|
| DUP | Method Duplicate |
| LCS | Laboratory Control Sample |
| LCSD | Laboratory Control Sample Duplicate |
| MBLK | Method Blank |
| MDL | Method Detection Limit |
| MQL | Method Quantitation Limit |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| PDS | Post Digestion Spike |
| PQL | Practical Quantitation Limit |
| RPD | Relative Percent Difference |
| SD | Serial Dilution |
| TDL | Target Detection Limit |

| Units Reported | Description |
|---|---|
| µg/L | Micrograms per Liter |

# ALS Group USA, Corp

**Date:** *14-Feb-13*

**Client:** ECT, Inc
**Work Order:** 1302259
**Project:** Rock-Tenn 2/6/13
**Lab ID:** 1302259-01

**Client Sample ID:** RTGB-1-W
**Collection Date:** 2/6/2013 10:20:00 AM
**Matrix:** WATER

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **SEMI-VOLATILE ORGANIC COMPOUNDS** | | | **SW8270** | | Prep Date: **2/11/2013** | | Analyst: **HL** |
| 1,1`-Biphenyl | ND | 5.0 | 0 | | µg/L | 1 | 2/12/2013 |
| 2,4,5-Trichlorophenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2,4,6-Trichlorophenol | ND | 4.0 | 4.0 | | µg/L | 1 | 2/12/2013 |
| 2,4-Dichlorophenol | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 2,4-Dimethylphenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2,4-Dinitrophenol | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| 2,4-Dinitrotoluene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2,6-Dinitrotoluene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2-Chloronaphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2-Chlorophenol | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 2-Methylnaphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2-Methylphenol | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 2-Nitroaniline | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| 2-Nitrophenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 3,3´-Dichlorobenzidine | ND | 5.0 | 0.39 | | µg/L | 1 | 2/12/2013 |
| 3-Nitroaniline | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| 4,6-Dinitro-2-methylphenol | ND | 20 | 20 | | µg/L | 1 | 2/12/2013 |
| 4-Bromophenyl phenyl ether | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 4-Chloro-3-methylphenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 4-Chloroaniline | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 4-Chlorophenyl phenyl ether | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 4-Methylphenol | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 4-Nitroaniline | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| 4-Nitrophenol | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| Acenaphthene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Acenaphthylene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Acetophenone | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| Anthracene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Atrazine | ND | 3.0 | 3.0 | | µg/L | 1 | 2/12/2013 |
| Benzaldehyde | ND | 1.0 | 0 | | µg/L | 1 | 2/12/2013 |
| Benzo(a)anthracene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Benzo(a)pyrene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Benzo(b)fluoranthene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Benzo(g,h,i)perylene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Benzo(k)fluoranthene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Bis(2-chloroethoxy)methane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Bis(2-chloroethyl)ether | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Bis(2-chloroisopropyl)ether | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Bis(2-ethylhexyl)phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *14-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RTGB-1-W |
| **Work Order:** | 1302259 | **Collection Date:** | 2/6/2013 10:20:00 AM |
| **Project:** | Rock-Tenn 2/6/13 | | |
| **Lab ID:** | 1302259-01 | **Matrix:** | WATER |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Butyl benzyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Caprolactam | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| Carbazole | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| Chrysene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Dibenzo(a,h)anthracene | ND | 2.0 | 2.0 | | µg/L | 1 | 2/12/2013 |
| Dibenzofuran | ND | 4.0 | 4.0 | | µg/L | 1 | 2/12/2013 |
| Diethyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Dimethyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Di-n-butyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Di-n-octyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Fluoranthene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Fluorene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Hexachlorobenzene | ND | 5.0 | 0.20 | | µg/L | 1 | 2/12/2013 |
| Hexachlorobutadiene | ND | 5.0 | 0.30 | | µg/L | 1 | 2/12/2013 |
| Hexachlorocyclopentadiene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Hexachloroethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Indeno(1,2,3-cd)pyrene | ND | 2.0 | 2.0 | | µg/L | 1 | 2/12/2013 |
| Isophorone | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Naphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Nitrobenzene | ND | 3.0 | 3.0 | | µg/L | 1 | 2/12/2013 |
| N-Nitrosodi-n-propylamine | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| N-Nitrosodiphenylamine | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Pentachlorophenol | ND | 20 | 2.0 | | µg/L | 1 | 2/12/2013 |
| Phenanthrene | ND | 5.0 | 2.0 | | µg/L | 1 | 2/12/2013 |
| Phenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Pyrene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| *Surr: 2,4,6-Tribromophenol* | *60.8* | *32-115* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 2-Fluorobiphenyl* | *54.3* | *32-100* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 2-Fluorophenol* | *36.9* | *22-59* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 4-Terphenyl-d14* | *98.6* | *23-112* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: Nitrobenzene-d5* | *59.2* | *31-93* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: Phenol-d6* | *22.0* | *13-36* | | | *%REC* | 1 | 2/12/2013 |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260** | | | | Analyst: **AK** |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1,1-Trichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1,2-Trichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1-Dichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1-Dichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2,3-Trichloropropane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *14-Feb-13*

**Client:** ECT, Inc
**Work Order:** 1302259
**Project:** Rock-Tenn 2/6/13
**Lab ID:** 1302259-01

**Client Sample ID:** RTGB-1-W
**Collection Date:** 2/6/2013 10:20:00 AM
**Matrix:** WATER

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | 0.20 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dibromoethane | ND | 1.0 | 0.050 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dichlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dichloropropane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,3-Dichlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,4-Dichlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 2-Butanone | ND | 25 | 25 | | µg/L | 1 | 2/9/2013 |
| 2-Hexanone | ND | 50 | 50 | | µg/L | 1 | 2/9/2013 |
| 2-Methylnaphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| 4-Methyl-2-pentanone | ND | 50 | 50 | | µg/L | 1 | 2/9/2013 |
| Acetone | ND | 50 | 50 | | µg/L | 1 | 2/9/2013 |
| Acrylonitrile | ND | 2.0 | 2.0 | | µg/L | 1 | 2/9/2013 |
| Benzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Bromochloromethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Bromodichloromethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Bromomethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Carbon disulfide | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Carbon tetrachloride | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Chlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Chloroethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Chloroform | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Chloromethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| cis-1,2-Dichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| cis-1,3-Dichloropropene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Dibromochloromethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Dibromomethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Dichlorodifluoromethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Diethyl ether | ND | 10 | 10 | | µg/L | 1 | 2/9/2013 |
| Ethylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Hexachloroethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Isopropylbenzene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| m,p-Xylene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Methyl iodide | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Methyl tert-butyl ether | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Naphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| n-Propylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| o-Xylene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *14-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RTGB-1-W |
| **Work Order:** | 1302259 | **Collection Date:** | 2/6/2013 10:20:00 AM |
| **Project:** | Rock-Tenn 2/6/13 | | |
| **Lab ID:** | 1302259-01 | **Matrix:** | WATER |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Styrene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Tetrachloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Toluene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| trans-1,2-Dichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| trans-1,3-Dichloropropene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| trans-1,4-Dichloro-2-butene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Trichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Trichlorofluoromethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Vinyl acetate | ND | 100 | 100 | | µg/L | 1 | 2/9/2013 |
| Vinyl chloride | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Xylenes, Total | ND | 3.0 | 3.0 | | µg/L | 1 | 2/9/2013 |
| *Surr: 1,2-Dichloroethane-d4* | *87.0* | *70-120* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: 4-Bromofluorobenzene* | *102* | *75-120* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: Dibromofluoromethane* | *89.4* | *85-115* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: Toluene-d8* | *91.8* | *85-120* | | | *%REC* | 1 | 2/9/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *14-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RTGB-2-W |
| **Work Order:** | 1302259 | **Collection Date:** | 2/6/2013 12:05:00 PM |
| **Project:** | Rock-Tenn 2/6/13 | | |
| **Lab ID:** | 1302259-02 | **Matrix:** | WATER |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **SEMI-VOLATILE ORGANIC COMPOUNDS** | | | **SW8270** | | Prep Date: **2/11/2013** | | Analyst: **HL** |
| 1,1`-Biphenyl | ND | 5.0 | 0 | | µg/L | 1 | 2/12/2013 |
| 2,4,5-Trichlorophenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2,4,6-Trichlorophenol | ND | 4.0 | 4.0 | | µg/L | 1 | 2/12/2013 |
| 2,4-Dichlorophenol | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 2,4-Dimethylphenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2,4-Dinitrophenol | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| 2,4-Dinitrotoluene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2,6-Dinitrotoluene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2-Chloronaphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2-Chlorophenol | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 2-Methylnaphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2-Methylphenol | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 2-Nitroaniline | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| 2-Nitrophenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 3,3´-Dichlorobenzidine | ND | 5.0 | 0.39 | | µg/L | 1 | 2/12/2013 |
| 3-Nitroaniline | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| 4,6-Dinitro-2-methylphenol | ND | 20 | 20 | | µg/L | 1 | 2/12/2013 |
| 4-Bromophenyl phenyl ether | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 4-Chloro-3-methylphenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 4-Chloroaniline | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 4-Chlorophenyl phenyl ether | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 4-Methylphenol | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 4-Nitroaniline | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| 4-Nitrophenol | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| Acenaphthene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Acenaphthylene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Acetophenone | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| Anthracene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Atrazine | ND | 3.0 | 3.0 | | µg/L | 1 | 2/12/2013 |
| Benzaldehyde | ND | 1.0 | 0 | | µg/L | 1 | 2/12/2013 |
| Benzo(a)anthracene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Benzo(a)pyrene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Benzo(b)fluoranthene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Benzo(g,h,i)perylene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Benzo(k)fluoranthene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Bis(2-chloroethoxy)methane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Bis(2-chloroethyl)ether | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Bis(2-chloroisopropyl)ether | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Bis(2-ethylhexyl)phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *14-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RTGB-2-W |
| **Work Order:** | 1302259 | **Collection Date:** | 2/6/2013 12:05:00 PM |
| **Project:** | Rock-Tenn 2/6/13 | | |
| **Lab ID:** | 1302259-02 | **Matrix:** | WATER |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Butyl benzyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Caprolactam | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| Carbazole | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| Chrysene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Dibenzo(a,h)anthracene | ND | 2.0 | 2.0 | | µg/L | 1 | 2/12/2013 |
| Dibenzofuran | ND | 4.0 | 4.0 | | µg/L | 1 | 2/12/2013 |
| Diethyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Dimethyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Di-n-butyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Di-n-octyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Fluoranthene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Fluorene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Hexachlorobenzene | ND | 5.0 | 0.20 | | µg/L | 1 | 2/12/2013 |
| Hexachlorobutadiene | ND | 5.0 | 0.30 | | µg/L | 1 | 2/12/2013 |
| Hexachlorocyclopentadiene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Hexachloroethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Indeno(1,2,3-cd)pyrene | ND | 2.0 | 2.0 | | µg/L | 1 | 2/12/2013 |
| Isophorone | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Naphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Nitrobenzene | ND | 3.0 | 3.0 | | µg/L | 1 | 2/12/2013 |
| N-Nitrosodi-n-propylamine | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| N-Nitrosodiphenylamine | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Pentachlorophenol | ND | 20 | 2.0 | | µg/L | 1 | 2/12/2013 |
| Phenanthrene | ND | 5.0 | 2.0 | | µg/L | 1 | 2/12/2013 |
| Phenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Pyrene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| *Surr: 2,4,6-Tribromophenol* | *56.7* | *32-115* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 2-Fluorobiphenyl* | *45.4* | *32-100* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 2-Fluorophenol* | *27.8* | *22-59* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 4-Terphenyl-d14* | *90.0* | *23-112* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: Nitrobenzene-d5* | *49.2* | *31-93* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: Phenol-d6* | *16.8* | *13-36* | | | *%REC* | 1 | 2/12/2013 |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260** | | | | Analyst: **AK** |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1,1-Trichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1,2-Trichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1-Dichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1-Dichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2,3-Trichloropropane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *14-Feb-13*

**Client:** ECT, Inc
**Work Order:** 1302259
**Project:** Rock-Tenn 2/6/13
**Lab ID:** 1302259-02

**Client Sample ID:** RTGB-2-W
**Collection Date:** 2/6/2013 12:05:00 PM
**Matrix:** WATER

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | 0.20 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dibromoethane | ND | 1.0 | 0.050 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dichlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dichloropropane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,3-Dichlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,4-Dichlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 2-Butanone | ND | 25 | 25 | | µg/L | 1 | 2/9/2013 |
| 2-Hexanone | ND | 50 | 50 | | µg/L | 1 | 2/9/2013 |
| 2-Methylnaphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| 4-Methyl-2-pentanone | ND | 50 | 50 | | µg/L | 1 | 2/9/2013 |
| Acetone | ND | 50 | 50 | | µg/L | 1 | 2/9/2013 |
| Acrylonitrile | ND | 2.0 | 2.0 | | µg/L | 1 | 2/9/2013 |
| Benzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Bromochloromethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Bromodichloromethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Bromomethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Carbon disulfide | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Carbon tetrachloride | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Chlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Chloroethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Chloroform | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Chloromethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| cis-1,2-Dichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| cis-1,3-Dichloropropene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Dibromochloromethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Dibromomethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Dichlorodifluoromethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Diethyl ether | ND | 10 | 10 | | µg/L | 1 | 2/9/2013 |
| Ethylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Hexachloroethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Isopropylbenzene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| m,p-Xylene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Methyl iodide | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Methyl tert-butyl ether | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Naphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| n-Propylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| o-Xylene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *14-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RTGB-2-W |
| **Work Order:** | 1302259 | **Collection Date:** | 2/6/2013 12:05:00 PM |
| **Project:** | Rock-Tenn 2/6/13 | | |
| **Lab ID:** | 1302259-02 | **Matrix:** | WATER |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Styrene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Tetrachloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Toluene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| trans-1,2-Dichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| trans-1,3-Dichloropropene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| trans-1,4-Dichloro-2-butene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Trichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Trichlorofluoromethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Vinyl acetate | ND | 100 | 100 | | µg/L | 1 | 2/9/2013 |
| Vinyl chloride | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Xylenes, Total | ND | 3.0 | 3.0 | | µg/L | 1 | 2/9/2013 |
| *Surr: 1,2-Dichloroethane-d4* | *88.7* | *70-120* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: 4-Bromofluorobenzene* | *102* | *75-120* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: Dibromofluoromethane* | *92.2* | *85-115* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: Toluene-d8* | *91.6* | *85-120* | | | *%REC* | 1 | 2/9/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *14-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RTGB-3-W |
| **Work Order:** | 1302259 | **Collection Date:** | 2/6/2013 1:40:00 PM |
| **Project:** | Rock-Tenn 2/6/13 | | |
| **Lab ID:** | 1302259-03 | **Matrix:** | WATER |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **SEMI-VOLATILE ORGANIC COMPOUNDS** | | | **SW8270** | | Prep Date: **2/11/2013** | | Analyst: **HL** |
| 1,1`-Biphenyl | ND | 5.0 | 0 | | µg/L | 1 | 2/12/2013 |
| 2,4,5-Trichlorophenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2,4,6-Trichlorophenol | ND | 4.0 | 4.0 | | µg/L | 1 | 2/12/2013 |
| 2,4-Dichlorophenol | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 2,4-Dimethylphenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2,4-Dinitrophenol | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| 2,4-Dinitrotoluene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2,6-Dinitrotoluene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2-Chloronaphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2-Chlorophenol | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 2-Methylnaphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2-Methylphenol | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 2-Nitroaniline | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| 2-Nitrophenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 3,3´-Dichlorobenzidine | ND | 5.0 | 0.39 | | µg/L | 1 | 2/12/2013 |
| 3-Nitroaniline | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| 4,6-Dinitro-2-methylphenol | ND | 20 | 20 | | µg/L | 1 | 2/12/2013 |
| 4-Bromophenyl phenyl ether | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 4-Chloro-3-methylphenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 4-Chloroaniline | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 4-Chlorophenyl phenyl ether | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 4-Methylphenol | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 4-Nitroaniline | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| 4-Nitrophenol | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| Acenaphthene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Acenaphthylene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Acetophenone | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| Anthracene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Atrazine | ND | 3.0 | 3.0 | | µg/L | 1 | 2/12/2013 |
| Benzaldehyde | ND | 1.0 | 0 | | µg/L | 1 | 2/12/2013 |
| Benzo(a)anthracene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Benzo(a)pyrene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Benzo(b)fluoranthene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Benzo(g,h,i)perylene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Benzo(k)fluoranthene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Bis(2-chloroethoxy)methane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Bis(2-chloroethyl)ether | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Bis(2-chloroisopropyl)ether | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Bis(2-ethylhexyl)phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *14-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RTGB-3-W |
| **Work Order:** | 1302259 | **Collection Date:** | 2/6/2013 1:40:00 PM |
| **Project:** | Rock-Tenn 2/6/13 | | |
| **Lab ID:** | 1302259-03 | **Matrix:** | WATER |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Butyl benzyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Caprolactam | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| Carbazole | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| Chrysene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Dibenzo(a,h)anthracene | ND | 5.0 | 2.0 | | µg/L | 1 | 2/12/2013 |
| Dibenzofuran | ND | 4.0 | 4.0 | | µg/L | 1 | 2/12/2013 |
| Diethyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Dimethyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Di-n-butyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Di-n-octyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Fluoranthene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Fluorene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Hexachlorobenzene | ND | 5.0 | 0.20 | | µg/L | 1 | 2/12/2013 |
| Hexachlorobutadiene | ND | 5.0 | 0.30 | | µg/L | 1 | 2/12/2013 |
| Hexachlorocyclopentadiene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Hexachloroethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Indeno(1,2,3-cd)pyrene | ND | 2.0 | 2.0 | | µg/L | 1 | 2/12/2013 |
| Isophorone | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Naphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Nitrobenzene | ND | 3.0 | 3.0 | | µg/L | 1 | 2/12/2013 |
| N-Nitrosodi-n-propylamine | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| N-Nitrosodiphenylamine | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Pentachlorophenol | ND | 20 | 2.0 | | µg/L | 1 | 2/12/2013 |
| Phenanthrene | ND | 5.0 | 2.0 | | µg/L | 1 | 2/12/2013 |
| Phenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Pyrene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| *Surr: 2,4,6-Tribromophenol* | *59.2* | *32-115* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 2-Fluorobiphenyl* | *46.3* | *32-100* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 2-Fluorophenol* | *28.9* | *22-59* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 4-Terphenyl-d14* | *98.0* | *23-112* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: Nitrobenzene-d5* | *50.4* | *31-93* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: Phenol-d6* | *16.8* | *13-36* | | | *%REC* | 1 | 2/12/2013 |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260** | | | | Analyst: **AK** |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1,1-Trichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1,2-Trichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1-Dichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1-Dichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2,3-Trichloropropane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *14-Feb-13*

**Client:** ECT, Inc
**Work Order:** 1302259
**Project:** Rock-Tenn 2/6/13
**Lab ID:** 1302259-03

**Client Sample ID:** RTGB-3-W
**Collection Date:** 2/6/2013 1:40:00 PM
**Matrix:** WATER

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | 0.20 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dibromoethane | ND | 1.0 | 0.050 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dichlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dichloropropane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,3-Dichlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,4-Dichlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 2-Butanone | ND | 25 | 25 | | µg/L | 1 | 2/9/2013 |
| 2-Hexanone | ND | 50 | 50 | | µg/L | 1 | 2/9/2013 |
| 2-Methylnaphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| 4-Methyl-2-pentanone | ND | 50 | 50 | | µg/L | 1 | 2/9/2013 |
| Acetone | ND | 50 | 50 | | µg/L | 1 | 2/9/2013 |
| Acrylonitrile | ND | 2.0 | 2.0 | | µg/L | 1 | 2/9/2013 |
| Benzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Bromochloromethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Bromodichloromethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Bromomethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Carbon disulfide | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Carbon tetrachloride | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Chlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Chloroethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Chloroform | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Chloromethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| cis-1,2-Dichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| cis-1,3-Dichloropropene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Dibromochloromethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Dibromomethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Dichlorodifluoromethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Diethyl ether | ND | 10 | 10 | | µg/L | 1 | 2/9/2013 |
| Ethylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Hexachloroethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Isopropylbenzene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| m,p-Xylene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Methyl iodide | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Methyl tert-butyl ether | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Naphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| n-Propylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| o-Xylene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *14-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RTGB-3-W |
| **Work Order:** | 1302259 | **Collection Date:** | 2/6/2013 1:40:00 PM |
| **Project:** | Rock-Tenn 2/6/13 | | |
| **Lab ID:** | 1302259-03 | **Matrix:** | WATER |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Styrene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Tetrachloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Toluene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| trans-1,2-Dichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| trans-1,3-Dichloropropene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| trans-1,4-Dichloro-2-butene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Trichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Trichlorofluoromethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Vinyl acetate | ND | 100 | 100 | | µg/L | 1 | 2/9/2013 |
| Vinyl chloride | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Xylenes, Total | ND | 3.0 | 3.0 | | µg/L | 1 | 2/9/2013 |
| *Surr: 1,2-Dichloroethane-d4* | *86.8* | *70-120* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: 4-Bromofluorobenzene* | *103* | *75-120* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: Dibromofluoromethane* | *91.3* | *85-115* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: Toluene-d8* | *90.6* | *85-120* | | | *%REC* | 1 | 2/9/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *14-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RTGB-4-W |
| **Work Order:** | 1302259 | **Collection Date:** | 2/6/2013 3:00:00 PM |
| **Project:** | Rock-Tenn 2/6/13 | | |
| **Lab ID:** | 1302259-04 | **Matrix:** | WATER |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **SEMI-VOLATILE ORGANIC COMPOUNDS** | | | **SW8270** | | Prep Date: **2/11/2013** | | Analyst: **HL** |
| 1,1`-Biphenyl | ND | 5.0 | 0 | | µg/L | 1 | 2/12/2013 |
| 2,4,5-Trichlorophenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2,4,6-Trichlorophenol | ND | 4.0 | 4.0 | | µg/L | 1 | 2/12/2013 |
| 2,4-Dichlorophenol | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 2,4-Dimethylphenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2,4-Dinitrophenol | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| 2,4-Dinitrotoluene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2,6-Dinitrotoluene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2-Chloronaphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2-Chlorophenol | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 2-Methylnaphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2-Methylphenol | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 2-Nitroaniline | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| 2-Nitrophenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 3,3´-Dichlorobenzidine | ND | 5.0 | 0.39 | | µg/L | 1 | 2/12/2013 |
| 3-Nitroaniline | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| 4,6-Dinitro-2-methylphenol | ND | 20 | 20 | | µg/L | 1 | 2/12/2013 |
| 4-Bromophenyl phenyl ether | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 4-Chloro-3-methylphenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 4-Chloroaniline | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 4-Chlorophenyl phenyl ether | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 4-Methylphenol | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 4-Nitroaniline | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| 4-Nitrophenol | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| Acenaphthene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Acenaphthylene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Acetophenone | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| Anthracene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Atrazine | ND | 3.0 | 3.0 | | µg/L | 1 | 2/12/2013 |
| Benzaldehyde | ND | 1.0 | 0 | | µg/L | 1 | 2/12/2013 |
| Benzo(a)anthracene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Benzo(a)pyrene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Benzo(b)fluoranthene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Benzo(g,h,i)perylene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Benzo(k)fluoranthene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Bis(2-chloroethoxy)methane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Bis(2-chloroethyl)ether | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Bis(2-chloroisopropyl)ether | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Bis(2-ethylhexyl)phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *14-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RTGB-4-W |
| **Work Order:** | 1302259 | **Collection Date:** | 2/6/2013 3:00:00 PM |
| **Project:** | Rock-Tenn 2/6/13 | | |
| **Lab ID:** | 1302259-04 | **Matrix:** | WATER |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Butyl benzyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Caprolactam | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| Carbazole | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| Chrysene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Dibenzo(a,h)anthracene | ND | 2.0 | 2.0 | | µg/L | 1 | 2/12/2013 |
| Dibenzofuran | ND | 4.0 | 4.0 | | µg/L | 1 | 2/12/2013 |
| Diethyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Dimethyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Di-n-butyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Di-n-octyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Fluoranthene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Fluorene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Hexachlorobenzene | ND | 5.0 | 0.20 | | µg/L | 1 | 2/12/2013 |
| Hexachlorobutadiene | ND | 5.0 | 0.30 | | µg/L | 1 | 2/12/2013 |
| Hexachlorocyclopentadiene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Hexachloroethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Indeno(1,2,3-cd)pyrene | ND | 2.0 | 2.0 | | µg/L | 1 | 2/12/2013 |
| Isophorone | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Naphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Nitrobenzene | ND | 3.0 | 3.0 | | µg/L | 1 | 2/12/2013 |
| N-Nitrosodi-n-propylamine | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| N-Nitrosodiphenylamine | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Pentachlorophenol | ND | 20 | 2.0 | | µg/L | 1 | 2/12/2013 |
| Phenanthrene | ND | 5.0 | 2.0 | | µg/L | 1 | 2/12/2013 |
| Phenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Pyrene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| *Surr: 2,4,6-Tribromophenol* | *62.5* | *32-115* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 2-Fluorobiphenyl* | *51.3* | *32-100* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 2-Fluorophenol* | *34.0* | *22-59* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 4-Terphenyl-d14* | *104* | *23-112* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: Nitrobenzene-d5* | *56.2* | *31-93* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: Phenol-d6* | *20.1* | *13-36* | | | *%REC* | 1 | 2/12/2013 |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260** | | | | Analyst: **AK** |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1,1-Trichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1,2-Trichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1-Dichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1-Dichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2,3-Trichloropropane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *14-Feb-13*

**Client:** ECT, Inc
**Work Order:** 1302259
**Project:** Rock-Tenn 2/6/13
**Lab ID:** 1302259-04

**Client Sample ID:** RTGB-4-W
**Collection Date:** 2/6/2013 3:00:00 PM
**Matrix:** WATER

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | 0.20 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dibromoethane | ND | 1.0 | 0.050 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dichlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dichloropropane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,3-Dichlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,4-Dichlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 2-Butanone | ND | 25 | 25 | | µg/L | 1 | 2/9/2013 |
| 2-Hexanone | ND | 50 | 50 | | µg/L | 1 | 2/9/2013 |
| 2-Methylnaphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| 4-Methyl-2-pentanone | ND | 50 | 50 | | µg/L | 1 | 2/9/2013 |
| Acetone | ND | 50 | 50 | | µg/L | 1 | 2/9/2013 |
| Acrylonitrile | ND | 2.0 | 2.0 | | µg/L | 1 | 2/9/2013 |
| Benzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Bromochloromethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Bromodichloromethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Bromomethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Carbon disulfide | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Carbon tetrachloride | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Chlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Chloroethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Chloroform | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Chloromethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| cis-1,2-Dichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| cis-1,3-Dichloropropene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Dibromochloromethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Dibromomethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Dichlorodifluoromethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Diethyl ether | ND | 10 | 10 | | µg/L | 1 | 2/9/2013 |
| Ethylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Hexachloroethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Isopropylbenzene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| m,p-Xylene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Methyl iodide | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Methyl tert-butyl ether | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Naphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| n-Propylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| o-Xylene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *14-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RTGB-4-W |
| **Work Order:** | 1302259 | **Collection Date:** | 2/6/2013 3:00:00 PM |
| **Project:** | Rock-Tenn 2/6/13 | | |
| **Lab ID:** | 1302259-04 | **Matrix:** | WATER |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Styrene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Tetrachloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Toluene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| trans-1,2-Dichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| trans-1,3-Dichloropropene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| trans-1,4-Dichloro-2-butene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Trichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Trichlorofluoromethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Vinyl acetate | ND | 100 | 100 | | µg/L | 1 | 2/9/2013 |
| Vinyl chloride | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Xylenes, Total | ND | 3.0 | 3.0 | | µg/L | 1 | 2/9/2013 |
| *Surr: 1,2-Dichloroethane-d4* | *87.8* | *70-120* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: 4-Bromofluorobenzene* | *103* | *75-120* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: Dibromofluoromethane* | *89.4* | *85-115* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: Toluene-d8* | *91.5* | *85-120* | | | *%REC* | 1 | 2/9/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *14-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RTGB-5-W |
| **Work Order:** | 1302259 | **Collection Date:** | 2/6/2013 4:30:00 PM |
| **Project:** | Rock-Tenn 2/6/13 | | |
| **Lab ID:** | 1302259-05 | **Matrix:** | WATER |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **SEMI-VOLATILE ORGANIC COMPOUNDS** | | | **SW8270** | | Prep Date: **2/11/2013** | | Analyst: **HL** |
| 1,1`-Biphenyl | ND | 5.0 | 0 | | µg/L | 1 | 2/12/2013 |
| 2,4,5-Trichlorophenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2,4,6-Trichlorophenol | ND | 4.0 | 4.0 | | µg/L | 1 | 2/12/2013 |
| 2,4-Dichlorophenol | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 2,4-Dimethylphenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2,4-Dinitrophenol | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| 2,4-Dinitrotoluene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2,6-Dinitrotoluene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2-Chloronaphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2-Chlorophenol | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 2-Methylnaphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2-Methylphenol | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 2-Nitroaniline | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| 2-Nitrophenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 3,3´-Dichlorobenzidine | ND | 5.0 | 0.39 | | µg/L | 1 | 2/12/2013 |
| 3-Nitroaniline | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| 4,6-Dinitro-2-methylphenol | ND | 20 | 20 | | µg/L | 1 | 2/12/2013 |
| 4-Bromophenyl phenyl ether | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 4-Chloro-3-methylphenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 4-Chloroaniline | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 4-Chlorophenyl phenyl ether | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 4-Methylphenol | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 4-Nitroaniline | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| 4-Nitrophenol | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| Acenaphthene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Acenaphthylene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Acetophenone | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| Anthracene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Atrazine | ND | 3.0 | 3.0 | | µg/L | 1 | 2/12/2013 |
| Benzaldehyde | ND | 1.0 | 0 | | µg/L | 1 | 2/12/2013 |
| Benzo(a)anthracene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Benzo(a)pyrene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Benzo(b)fluoranthene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Benzo(g,h,i)perylene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Benzo(k)fluoranthene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Bis(2-chloroethoxy)methane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Bis(2-chloroethyl)ether | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Bis(2-chloroisopropyl)ether | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Bis(2-ethylhexyl)phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *14-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RTGB-5-W |
| **Work Order:** | 1302259 | **Collection Date:** | 2/6/2013 4:30:00 PM |
| **Project:** | Rock-Tenn 2/6/13 | | |
| **Lab ID:** | 1302259-05 | **Matrix:** | WATER |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Butyl benzyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Caprolactam | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| Carbazole | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| Chrysene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Dibenzo(a,h)anthracene | ND | 2.0 | 2.0 | | µg/L | 1 | 2/12/2013 |
| Dibenzofuran | ND | 4.0 | 4.0 | | µg/L | 1 | 2/12/2013 |
| Diethyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Dimethyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Di-n-butyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Di-n-octyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Fluoranthene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Fluorene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Hexachlorobenzene | ND | 5.0 | 0.20 | | µg/L | 1 | 2/12/2013 |
| Hexachlorobutadiene | ND | 5.0 | 0.30 | | µg/L | 1 | 2/12/2013 |
| Hexachlorocyclopentadiene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Hexachloroethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Indeno(1,2,3-cd)pyrene | ND | 2.0 | 2.0 | | µg/L | 1 | 2/12/2013 |
| Isophorone | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Naphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Nitrobenzene | ND | 3.0 | 3.0 | | µg/L | 1 | 2/12/2013 |
| N-Nitrosodi-n-propylamine | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| N-Nitrosodiphenylamine | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Pentachlorophenol | ND | 20 | 2.0 | | µg/L | 1 | 2/12/2013 |
| Phenanthrene | ND | 5.0 | 2.0 | | µg/L | 1 | 2/12/2013 |
| Phenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Pyrene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| *Surr: 2,4,6-Tribromophenol* | *58.7* | *32-115* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 2-Fluorobiphenyl* | *48.7* | *32-100* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 2-Fluorophenol* | *31.0* | *22-59* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 4-Terphenyl-d14* | *99.3* | *23-112* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: Nitrobenzene-d5* | *53.6* | *31-93* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: Phenol-d6* | *18.1* | *13-36* | | | *%REC* | 1 | 2/12/2013 |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260** | | | | Analyst: **AK** |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1,1-Trichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1,2-Trichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1-Dichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1-Dichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2,3-Trichloropropane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *14-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RTGB-5-W |
| **Work Order:** | 1302259 | **Collection Date:** | 2/6/2013 4:30:00 PM |
| **Project:** | Rock-Tenn 2/6/13 | | |
| **Lab ID:** | 1302259-05 | **Matrix:** | WATER |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | 0.20 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dibromoethane | ND | 1.0 | 0.050 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dichlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dichloropropane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,3-Dichlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,4-Dichlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 2-Butanone | ND | 25 | 25 | | µg/L | 1 | 2/9/2013 |
| 2-Hexanone | ND | 50 | 50 | | µg/L | 1 | 2/9/2013 |
| 2-Methylnaphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| 4-Methyl-2-pentanone | ND | 50 | 50 | | µg/L | 1 | 2/9/2013 |
| Acetone | ND | 50 | 50 | | µg/L | 1 | 2/9/2013 |
| Acrylonitrile | ND | 2.0 | 2.0 | | µg/L | 1 | 2/9/2013 |
| Benzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Bromochloromethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Bromodichloromethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Bromomethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Carbon disulfide | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Carbon tetrachloride | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Chlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Chloroethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Chloroform | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Chloromethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| cis-1,2-Dichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| cis-1,3-Dichloropropene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Dibromochloromethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Dibromomethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Dichlorodifluoromethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Diethyl ether | ND | 10 | 10 | | µg/L | 1 | 2/9/2013 |
| Ethylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Hexachloroethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Isopropylbenzene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| m,p-Xylene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Methyl iodide | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Methyl tert-butyl ether | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Naphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| n-Propylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| o-Xylene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *14-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RTGB-5-W |
| **Work Order:** | 1302259 | **Collection Date:** | 2/6/2013 4:30:00 PM |
| **Project:** | Rock-Tenn 2/6/13 | | |
| **Lab ID:** | 1302259-05 | **Matrix:** | WATER |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Styrene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Tetrachloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Toluene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| trans-1,2-Dichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| trans-1,3-Dichloropropene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| trans-1,4-Dichloro-2-butene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Trichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Trichlorofluoromethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Vinyl acetate | ND | 100 | 100 | | µg/L | 1 | 2/9/2013 |
| Vinyl chloride | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Xylenes, Total | ND | 3.0 | 3.0 | | µg/L | 1 | 2/9/2013 |
| *Surr: 1,2-Dichloroethane-d4* | *86.1* | *70-120* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: 4-Bromofluorobenzene* | *104* | *75-120* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: Dibromofluoromethane* | *90.2* | *85-115* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: Toluene-d8* | *91.3* | *85-120* | | | *%REC* | 1 | 2/9/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *14-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | Trip Blank |
| **Work Order:** | 1302259 | **Collection Date:** | 2/6/2013 |
| **Project:** | Rock-Tenn 2/6/13 | | |
| **Lab ID:** | 1302259-06 | **Matrix:** | WATER |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260** | | | | Analyst: **AK** |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1,1-Trichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1,2-Trichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1-Dichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1-Dichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2,3-Trichloropropane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2,4-Trichlorobenzene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | 0.20 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dibromoethane | ND | 1.0 | 0.050 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dichlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dichloropropane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,3-Dichlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,4-Dichlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 2-Butanone | ND | 25 | 25 | | µg/L | 1 | 2/9/2013 |
| 2-Hexanone | ND | 50 | 50 | | µg/L | 1 | 2/9/2013 |
| 2-Methylnaphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| 4-Methyl-2-pentanone | ND | 50 | 50 | | µg/L | 1 | 2/9/2013 |
| Acetone | ND | 50 | 50 | | µg/L | 1 | 2/9/2013 |
| Acrylonitrile | ND | 2.0 | 2.0 | | µg/L | 1 | 2/9/2013 |
| Benzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Bromochloromethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Bromodichloromethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Bromomethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Carbon disulfide | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Carbon tetrachloride | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Chlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Chloroethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Chloroform | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Chloromethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| cis-1,2-Dichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| cis-1,3-Dichloropropene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Dibromochloromethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Dibromomethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Dichlorodifluoromethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Diethyl ether | ND | 10 | 10 | | µg/L | 1 | 2/9/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *14-Feb-13*

**Client:** ECT, Inc
**Work Order:** 1302259
**Project:** Rock-Tenn 2/6/13
**Lab ID:** 1302259-06

**Client Sample ID:** Trip Blank
**Collection Date:** 2/6/2013
**Matrix:** WATER

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Ethylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Hexachloroethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Isopropylbenzene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| m,p-Xylene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Methyl iodide | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Methyl tert-butyl ether | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Naphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| n-Propylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| o-Xylene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Styrene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Tetrachloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Toluene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| trans-1,2-Dichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| trans-1,3-Dichloropropene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| trans-1,4-Dichloro-2-butene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Trichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Trichlorofluoromethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Vinyl acetate | ND | 100 | 100 | | µg/L | 1 | 2/9/2013 |
| Vinyl chloride | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Xylenes, Total | ND | 3.0 | 3.0 | | µg/L | 1 | 2/9/2013 |
| *Surr: 1,2-Dichloroethane-d4* | *88.6* | *70-120* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: 4-Bromofluorobenzene* | *102* | *75-120* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: Dibromofluoromethane* | *91.6* | *85-115* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: Toluene-d8* | *90.9* | *85-120* | | | *%REC* | 1 | 2/9/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

Batch ID: **46334** Instrument ID **SVMS4** Method: **SW8270**

**MBLK** Sample ID: **SBLKW1-46334-46334** Units: **µg/L** Analysis Date: **2/12/2013 02:31 PM**

Client ID: Run ID: **SVMS4_130212A** SeqNo: **2214420** Prep Date: **2/11/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1`-Biphenyl | ND | 5.0 | | | | | | | | |
| 2,4,5-Trichlorophenol | ND | 5.0 | | | | | | | | |
| 2,4,6-Trichlorophenol | ND | 5.0 | | | | | | | | |
| 2,4-Dichlorophenol | ND | 10 | | | | | | | | |
| 2,4-Dimethylphenol | ND | 5.0 | | | | | | | | |
| 2,4-Dinitrophenol | ND | 5.0 | | | | | | | | |
| 2,4-Dinitrotoluene | ND | 5.0 | | | | | | | | |
| 2,6-Dinitrotoluene | ND | 5.0 | | | | | | | | |
| 2-Chloronaphthalene | ND | 5.0 | | | | | | | | |
| 2-Chlorophenol | ND | 5.0 | | | | | | | | |
| 2-Methylnaphthalene | ND | 5.0 | | | | | | | | |
| 2-Methylphenol | ND | 5.0 | | | | | | | | |
| 2-Nitroaniline | ND | 20 | | | | | | | | |
| 2-Nitrophenol | ND | 5.0 | | | | | | | | |
| 3,3´-Dichlorobenzidine | ND | 5.0 | | | | | | | | |
| 3-Nitroaniline | ND | 20 | | | | | | | | |
| 4,6-Dinitro-2-methylphenol | ND | 20 | | | | | | | | |
| 4-Bromophenyl phenyl ether | ND | 5.0 | | | | | | | | |
| 4-Chloro-3-methylphenol | ND | 5.0 | | | | | | | | |
| 4-Chloroaniline | ND | 20 | | | | | | | | |
| 4-Chlorophenyl phenyl ether | ND | 5.0 | | | | | | | | |
| 4-Methylphenol | ND | 5.0 | | | | | | | | |
| 4-Nitroaniline | ND | 20 | | | | | | | | |
| 4-Nitrophenol | ND | 20 | | | | | | | | |
| Acenaphthene | ND | 5.0 | | | | | | | | |
| Acenaphthylene | ND | 5.0 | | | | | | | | |
| Acetophenone | ND | 1.0 | | | | | | | | |
| Anthracene | ND | 5.0 | | | | | | | | |
| Atrazine | ND | 1.0 | | | | | | | | |
| Benzaldehyde | ND | 1.0 | | | | | | | | |
| Benzo(a)anthracene | ND | 5.0 | | | | | | | | |
| Benzo(a)pyrene | ND | 5.0 | | | | | | | | |
| Benzo(b)fluoranthene | ND | 5.0 | | | | | | | | |
| Benzo(g,h,i)perylene | ND | 5.0 | | | | | | | | |
| Benzo(k)fluoranthene | ND | 5.0 | | | | | | | | |
| Bis(2-chloroethoxy)methane | ND | 5.0 | | | | | | | | |
| Bis(2-chloroethyl)ether | ND | 5.0 | | | | | | | | |
| Bis(2-chloroisopropyl)ether | ND | 5.0 | | | | | | | | |
| Bis(2-ethylhexyl)phthalate | ND | 5.0 | | | | | | | | |
| Butyl benzyl phthalate | ND | 5.0 | | | | | | | | |
| Caprolactam | ND | 10 | | | | | | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Batch ID: **46334** Instrument ID **SVMS4** Method: **SW8270**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Carbazole | ND | 10 | | | | | | |
| Chrysene | ND | 5.0 | | | | | | |
| Dibenzo(a,h)anthracene | ND | 5.0 | | | | | | |
| Dibenzofuran | ND | 5.0 | | | | | | |
| Diethyl phthalate | ND | 20 | | | | | | |
| Dimethyl phthalate | ND | 20 | | | | | | |
| Di-n-butyl phthalate | 1.19 | 5.0 | | | | | | J |
| Di-n-octyl phthalate | ND | 5.0 | | | | | | |
| Fluoranthene | ND | 5.0 | | | | | | |
| Fluorene | ND | 5.0 | | | | | | |
| Hexachlorobenzene | ND | 5.0 | | | | | | |
| Hexachlorobutadiene | ND | 5.0 | | | | | | |
| Hexachlorocyclopentadiene | ND | 20 | | | | | | |
| Hexachloroethane | ND | 5.0 | | | | | | |
| Indeno(1,2,3-cd)pyrene | ND | 5.0 | | | | | | |
| Isophorone | ND | 5.0 | | | | | | |
| Naphthalene | ND | 5.0 | | | | | | |
| Nitrobenzene | ND | 5.0 | | | | | | |
| N-Nitrosodi-n-propylamine | ND | 5.0 | | | | | | |
| N-Nitrosodiphenylamine | ND | 5.0 | | | | | | |
| Pentachlorophenol | ND | 20 | | | | | | |
| Phenanthrene | ND | 5.0 | | | | | | |
| Phenol | ND | 5.0 | | | | | | |
| Pyrene | ND | 5.0 | | | | | | |
| *Surr: 2,4,6-Tribromophenol* | *31.48* | 0 | *50* | 0 | *63* | *38-115* | 0 | |
| *Surr: 2-Fluorobiphenyl* | *31.7* | 0 | *50* | 0 | *63.4* | *32-100* | 0 | |
| *Surr: 2-Fluorophenol* | *19.93* | 0 | *50* | 0 | *39.9* | *22-59* | 0 | |
| *Surr: 4-Terphenyl-d14* | *52.19* | 0 | *50* | 0 | *104* | *23-112* | 0 | |
| *Surr: Nitrobenzene-d5* | *34.08* | 0 | *50* | 0 | *68.2* | *31-93* | 0 | |
| *Surr: Phenol-d6* | *10.92* | 0 | *50* | 0 | *21.8* | *13-36* | 0 | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302259
**Project:** Rock-Tenn 2/6/13

# QC BATCH REPORT

Batch ID: **46334** Instrument ID **SVMS4** Method: **SW8270**

**LCS** Sample ID: **SLCSW1-46334-46334** Units: **µg/L** Analysis Date: **2/12/2013 02:00 PM**
Client ID: Run ID: **SVMS4_130212A** SeqNo: **2214419** Prep Date: **2/11/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4,5-Trichlorophenol | 14.27 | 5.0 | 20 | 0 | 71.4 | 50-110 | 0 | | | |
| 2,4,6-Trichlorophenol | 14.22 | 5.0 | 20 | 0 | 71.1 | 50-115 | 0 | | | |
| 2,4-Dichlorophenol | 13.29 | 10 | 20 | 0 | 66.4 | 50-105 | 0 | | | |
| 2,4-Dimethylphenol | 11.18 | 5.0 | 20 | 0 | 55.9 | 30-110 | 0 | | | |
| 2,4-Dinitrophenol | 18.42 | 5.0 | 20 | 0 | 92.1 | 15-140 | 0 | | | |
| 2,4-Dinitrotoluene | 15.9 | 5.0 | 20 | 0 | 79.5 | 50-120 | 0 | | | |
| 2,6-Dinitrotoluene | 15.9 | 5.0 | 20 | 0 | 79.5 | 50-115 | 0 | | | |
| 2-Chloronaphthalene | 14.81 | 5.0 | 20 | 0 | 74 | 50-105 | 0 | | | |
| 2-Chlorophenol | 15.4 | 5.0 | 20 | 0 | 77 | 35-105 | 0 | | | |
| 2-Methylnaphthalene | 14.29 | 5.0 | 20 | 0 | 71.4 | 45-105 | 0 | | | |
| 2-Methylphenol | 12.85 | 5.0 | 20 | 0 | 64.2 | 40-110 | 0 | | | |
| 2-Nitroaniline | 17.67 | 20 | 20 | 0 | 88.4 | 50-115 | 0 | | | J |
| 2-Nitrophenol | 14.21 | 5.0 | 20 | 0 | 71 | 40-115 | 0 | | | |
| 3-Nitroaniline | 12.77 | 20 | 20 | 0 | 63.8 | 20-125 | 0 | | | J |
| 4,6-Dinitro-2-methylphenol | 20.25 | 20 | 20 | 0 | 101 | 40-130 | 0 | | | |
| 4-Bromophenyl phenyl ether | 17.47 | 5.0 | 20 | 0 | 87.4 | 50-115 | 0 | | | |
| 4-Chloro-3-methylphenol | 14.29 | 5.0 | 20 | 0 | 71.4 | 45-110 | 0 | | | |
| 4-Chloroaniline | 19.86 | 20 | 20 | 0 | 99.3 | 15-110 | 0 | | | J |
| 4-Chlorophenyl phenyl ether | 14.62 | 5.0 | 20 | 0 | 73.1 | 50-110 | 0 | | | |
| 4-Methylphenol | 11.3 | 5.0 | 20 | 0 | 56.5 | 30-110 | 0 | | | |
| 4-Nitroaniline | 12.71 | 20 | 20 | 0 | 63.6 | 35-150 | 0 | | | J |
| 4-Nitrophenol | 6.75 | 20 | 20 | 0 | 33.8 | 1-58 | 0 | | | J |
| Acenaphthene | 15.67 | 5.0 | 20 | 0 | 78.4 | 45-110 | 0 | | | |
| Acenaphthylene | 15.31 | 5.0 | 20 | 0 | 76.6 | 50-105 | 0 | | | |
| Anthracene | 18.39 | 5.0 | 20 | 0 | 92 | 55-110 | 0 | | | |
| Benzo(a)anthracene | 18.16 | 5.0 | 20 | 0 | 90.8 | 55-110 | 0 | | | |
| Benzo(a)pyrene | 19.19 | 5.0 | 20 | 0 | 96 | 55-110 | 0 | | | |
| Benzo(b)fluoranthene | 19.47 | 5.0 | 20 | 0 | 97.4 | 45-120 | 0 | | | |
| Benzo(g,h,i)perylene | 20.58 | 5.0 | 20 | 0 | 103 | 40-125 | 0 | | | |
| Benzo(k)fluoranthene | 20.05 | 5.0 | 20 | 0 | 100 | 45-125 | 0 | | | |
| Bis(2-chloroethoxy)methane | 15.04 | 5.0 | 20 | 0 | 75.2 | 45-105 | 0 | | | |
| Bis(2-chloroethyl)ether | 16.12 | 5.0 | 20 | 0 | 80.6 | 35-110 | 0 | | | |
| Bis(2-chloroisopropyl)ether | 15.75 | 5.0 | 20 | 0 | 78.8 | 25-130 | 0 | | | |
| Bis(2-ethylhexyl)phthalate | 18.78 | 5.0 | 20 | 0 | 93.9 | 40-125 | 0 | | | |
| Butyl benzyl phthalate | 19.5 | 5.0 | 20 | 0 | 97.5 | 45-115 | 0 | | | |
| Carbazole | 21.49 | 10 | 20 | 0 | 107 | 50-150 | 0 | | | |
| Chrysene | 18.97 | 5.0 | 20 | 0 | 94.8 | 55-110 | 0 | | | |
| Dibenzo(a,h)anthracene | 20.22 | 5.0 | 20 | 0 | 101 | 40-125 | 0 | | | |
| Dibenzofuran | 15.39 | 5.0 | 20 | 0 | 77 | 55-105 | 0 | | | |
| Diethyl phthalate | 17.3 | 20 | 20 | 0 | 86.5 | 40-120 | 0 | | | J |
| Dimethyl phthalate | 16.75 | 20 | 20 | 0 | 83.8 | 25-125 | 0 | | | J |
| Di-n-butyl phthalate | 18.43 | 5.0 | 20 | 0 | 92.2 | 55-115 | 0 | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

# QC BATCH REPORT

Batch ID: **46334** Instrument ID **SVMS4** Method: **SW8270**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Di-n-octyl phthalate | 17.13 | 5.0 | 20 | 0 | 85.6 | 35-135 | 0 | |
| Fluoranthene | 19.65 | 5.0 | 20 | 0 | 98.2 | 55-115 | 0 | |
| Fluorene | 15.8 | 5.0 | 20 | 0 | 79 | 50-110 | 0 | |
| Hexachlorobenzene | 17.49 | 5.0 | 20 | 0 | 87.4 | 50-110 | 0 | |
| Hexachlorobutadiene | 13.1 | 5.0 | 20 | 0 | 65.5 | 25-105 | 0 | |
| Hexachlorocyclopentadiene | 10.6 | 20 | 20 | 0 | 53 | 25-105 | 0 | J |
| Hexachloroethane | 15.04 | 5.0 | 20 | 0 | 75.2 | 30-95 | 0 | |
| Indeno(1,2,3-cd)pyrene | 20.38 | 5.0 | 20 | 0 | 102 | 45-125 | 0 | |
| Isophorone | 16.01 | 5.0 | 20 | 0 | 80 | 50-110 | 0 | |
| Naphthalene | 14.27 | 5.0 | 20 | 0 | 71.4 | 40-100 | 0 | |
| Nitrobenzene | 15.44 | 5.0 | 20 | 0 | 77.2 | 45-110 | 0 | |
| N-Nitrosodi-n-propylamine | 15.99 | 5.0 | 20 | 0 | 80 | 35-130 | 0 | |
| N-Nitrosodiphenylamine | 18.67 | 5.0 | 20 | 0 | 93.4 | 50-110 | 0 | |
| Pentachlorophenol | 15.3 | 20 | 20 | 0 | 76.5 | 40-115 | 0 | J |
| Phenanthrene | 17.93 | 5.0 | 20 | 0 | 89.6 | 50-115 | 0 | |
| Phenol | 5.92 | 5.0 | 20 | 0 | 29.6 | 12-43 | 0 | |
| Pyrene | 19.05 | 5.0 | 20 | 0 | 95.2 | 50-130 | 0 | |
| *Surr: 2,4,6-Tribromophenol* | *37.9* | 0 | *50* | 0 | *75.8* | *38-115* | 0 | |
| *Surr: 2-Fluorobiphenyl* | *33.9* | 0 | *50* | 0 | *67.8* | *32-100* | 0 | |
| *Surr: 2-Fluorophenol* | *21.79* | 0 | *50* | 0 | *43.6* | *22-59* | 0 | |
| *Surr: 4-Terphenyl-d14* | *51.49* | 0 | *50* | 0 | *103* | *23-112* | 0 | |
| *Surr: Nitrobenzene-d5* | *35.46* | 0 | *50* | 0 | *70.9* | *31-93* | 0 | |
| *Surr: Phenol-d6* | *12.96* | 0 | *50* | 0 | *25.9* | *13-36* | 0 | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302259
**Project:** Rock-Tenn 2/6/13

# QC BATCH REPORT

Batch ID: **46334** Instrument ID **SVMS4** Method: **SW8270**

**MS** Sample ID: **1302260-01B MS** Units: **µg/L** Analysis Date: **2/12/2013 03:47 PM**

Client ID: Run ID: **SVMS4_130212A** SeqNo: **2214421** Prep Date: **2/11/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4,5-Trichlorophenol | 144 | 50 | 200 | 0 | 72 | 50-110 | 0 | | | |
| 2,4,6-Trichlorophenol | 140.9 | 50 | 200 | 0 | 70.4 | 50-115 | 0 | | | |
| 2,4-Dichlorophenol | 132.4 | 100 | 200 | 0 | 66.2 | 50-105 | 0 | | | |
| 2,4-Dimethylphenol | 117.2 | 50 | 200 | 0 | 58.6 | 30-110 | 0 | | | |
| 2,4-Dinitrophenol | 189.9 | 50 | 200 | 0 | 95 | 15-140 | 0 | | | |
| 2,4-Dinitrotoluene | 156.4 | 50 | 200 | 0 | 78.2 | 50-120 | 0 | | | |
| 2,6-Dinitrotoluene | 158.2 | 50 | 200 | 0 | 79.1 | 50-115 | 0 | | | |
| 2-Chloronaphthalene | 145.2 | 50 | 200 | 0 | 72.6 | 50-105 | 0 | | | |
| 2-Chlorophenol | 149.9 | 50 | 200 | 0 | 75 | 35-105 | 0 | | | |
| 2-Methylnaphthalene | 143.1 | 50 | 200 | 0 | 71.6 | 45-105 | 0 | | | |
| 2-Methylphenol | 128.6 | 50 | 200 | 0 | 64.3 | 40-110 | 0 | | | |
| 2-Nitroaniline | 174.3 | 200 | 200 | 0 | 87.2 | 50-115 | 0 | | | J |
| 2-Nitrophenol | 140.2 | 50 | 200 | 0 | 70.1 | 40-115 | 0 | | | |
| 3-Nitroaniline | 163.4 | 200 | 200 | 0 | 81.7 | 20-125 | 0 | | | J |
| 4,6-Dinitro-2-methylphenol | 205.4 | 200 | 200 | 0 | 103 | 40-130 | 0 | | | |
| 4-Bromophenyl phenyl ether | 169.8 | 50 | 200 | 0 | 84.9 | 50-115 | 0 | | | |
| 4-Chloro-3-methylphenol | 142.1 | 50 | 200 | 0 | 71 | 45-110 | 0 | | | |
| 4-Chloroaniline | 190.4 | 200 | 200 | 0 | 95.2 | 15-110 | 0 | | | J |
| 4-Chlorophenyl phenyl ether | 143.8 | 50 | 200 | 0 | 71.9 | 50-110 | 0 | | | |
| 4-Methylphenol | 117.3 | 50 | 200 | 0 | 58.6 | 30-110 | 0 | | | |
| 4-Nitroaniline | 162.5 | 200 | 200 | 0 | 81.2 | 35-150 | 0 | | | J |
| 4-Nitrophenol | 74.9 | 200 | 200 | 0 | 37.4 | 1-58 | 0 | | | J |
| Acenaphthene | 152.4 | 50 | 200 | 0 | 76.2 | 45-110 | 0 | | | |
| Acenaphthylene | 150.6 | 50 | 200 | 0 | 75.3 | 50-105 | 0 | | | |
| Anthracene | 180.9 | 50 | 200 | 0 | 90.4 | 55-110 | 0 | | | |
| Benzo(a)anthracene | 178.6 | 50 | 200 | 0 | 89.3 | 55-110 | 0 | | | |
| Benzo(a)pyrene | 188.2 | 50 | 200 | 0 | 94.1 | 55-110 | 0 | | | |
| Benzo(b)fluoranthene | 190 | 50 | 200 | 0 | 95 | 45-120 | 0 | | | |
| Benzo(g,h,i)perylene | 203.2 | 50 | 200 | 0 | 102 | 40-125 | 0 | | | |
| Benzo(k)fluoranthene | 198.8 | 50 | 200 | 0 | 99.4 | 45-125 | 0 | | | |
| Bis(2-chloroethoxy)methane | 150.8 | 50 | 200 | 0 | 75.4 | 45-105 | 0 | | | |
| Bis(2-chloroethyl)ether | 156.4 | 50 | 200 | 0 | 78.2 | 35-110 | 0 | | | |
| Bis(2-chloroisopropyl)ether | 154.9 | 50 | 200 | 0 | 77.4 | 25-130 | 0 | | | |
| Bis(2-ethylhexyl)phthalate | 183.2 | 50 | 200 | 0 | 91.6 | 40-125 | 0 | | | |
| Butyl benzyl phthalate | 194.1 | 50 | 200 | 0 | 97 | 45-115 | 0 | | | |
| Carbazole | 211.2 | 100 | 200 | 0 | 106 | 50-150 | 0 | | | |
| Chrysene | 186.1 | 50 | 200 | 0 | 93 | 55-110 | 0 | | | |
| Dibenzo(a,h)anthracene | 196.7 | 50 | 200 | 0 | 98.4 | 40-125 | 0 | | | |
| Dibenzofuran | 149.9 | 50 | 200 | 0 | 75 | 55-105 | 0 | | | |
| Diethyl phthalate | 171 | 200 | 200 | 0 | 85.5 | 40-120 | 0 | | | J |
| Dimethyl phthalate | 164.5 | 200 | 200 | 0 | 82.2 | 25-125 | 0 | | | J |
| Di-n-butyl phthalate | 181.8 | 50 | 200 | 1.19 | 90.3 | 55-115 | 0 | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

# QC BATCH REPORT

Batch ID: **46334** Instrument ID **SVMS4** Method: **SW8270**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Di-n-octyl phthalate | 168.8 | 50 | 200 | 0 | 84.4 | 35-135 | 0 | |
| Fluoranthene | 194.4 | 50 | 200 | 0 | 97.2 | 55-115 | 0 | |
| Fluorene | 154.4 | 50 | 200 | 0 | 77.2 | 50-110 | 0 | |
| Hexachlorobenzene | 174.6 | 50 | 200 | 0 | 87.3 | 50-110 | 0 | |
| Hexachlorobutadiene | 133.1 | 50 | 200 | 0 | 66.6 | 25-105 | 0 | |
| Hexachlorocyclopentadiene | 110.4 | 200 | 200 | 0 | 55.2 | 25-105 | 0 | J |
| Hexachloroethane | 145.3 | 50 | 200 | 0 | 72.6 | 30-95 | 0 | |
| Indeno(1,2,3-cd)pyrene | 199.5 | 50 | 200 | 0 | 99.8 | 45-125 | 0 | |
| Isophorone | 157.3 | 50 | 200 | 0 | 78.6 | 50-110 | 0 | |
| Naphthalene | 142 | 50 | 200 | 0 | 71 | 40-100 | 0 | |
| Nitrobenzene | 153.6 | 50 | 200 | 0 | 76.8 | 45-110 | 0 | |
| N-Nitrosodi-n-propylamine | 157.7 | 50 | 200 | 0 | 78.8 | 35-130 | 0 | |
| N-Nitrosodiphenylamine | 182.6 | 50 | 200 | 0 | 91.3 | 50-110 | 0 | |
| Pentachlorophenol | 155.5 | 200 | 200 | 0 | 77.8 | 40-115 | 0 | J |
| Phenanthrene | 177.2 | 50 | 200 | 0 | 88.6 | 50-115 | 0 | |
| Phenol | 67.9 | 50 | 200 | 0 | 34 | 12-43 | 0 | |
| Pyrene | 186.8 | 50 | 200 | 0 | 93.4 | 50-130 | 0 | |
| *Surr: 2,4,6-Tribromophenol* | *390.7* | 0 | *500* | 0 | *78.1* | *38-115* | 0 | |
| *Surr: 2-Fluorobiphenyl* | *340* | 0 | *500* | 0 | *68* | *32-100* | 0 | |
| *Surr: 2-Fluorophenol* | *227.1* | 0 | *500* | 0 | *45.4* | *22-59* | 0 | |
| *Surr: 4-Terphenyl-d14* | *514.5* | 0 | *500* | 0 | *103* | *23-112* | 0 | |
| *Surr: Nitrobenzene-d5* | *357.5* | 0 | *500* | 0 | *71.5* | *31-93* | 0 | |
| *Surr: Phenol-d6* | *138.7* | 0 | *500* | 0 | *27.7* | *13-36* | 0 | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302259
**Project:** Rock-Tenn 2/6/13

# QC BATCH REPORT

Batch ID: **46334** Instrument ID **SVMS4** Method: **SW8270**

**MSD** Sample ID: **1302260-01B MSD** Units: **µg/L** Analysis Date: **2/12/2013 04:19 PM**
Client ID: Run ID: **SVMS4_130212A** SeqNo: **2214422** Prep Date: **2/11/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4,5-Trichlorophenol | 138.4 | 50 | 200 | 0 | 69.2 | 50-110 | 144 | 3.97 | 30 | |
| 2,4,6-Trichlorophenol | 133.5 | 50 | 200 | 0 | 66.8 | 50-115 | 140.9 | 5.39 | 30 | |
| 2,4-Dichlorophenol | 125.7 | 100 | 200 | 0 | 62.8 | 50-105 | 132.4 | 5.19 | 30 | |
| 2,4-Dimethylphenol | 100.2 | 50 | 200 | 0 | 50.1 | 30-110 | 117.2 | 15.6 | 30 | |
| 2,4-Dinitrophenol | 185.7 | 50 | 200 | 0 | 92.8 | 15-140 | 189.9 | 2.24 | 30 | |
| 2,4-Dinitrotoluene | 155.4 | 50 | 200 | 0 | 77.7 | 50-120 | 156.4 | 0.641 | 30 | |
| 2,6-Dinitrotoluene | 152.2 | 50 | 200 | 0 | 76.1 | 50-115 | 158.2 | 3.87 | 30 | |
| 2-Chloronaphthalene | 143 | 50 | 200 | 0 | 71.5 | 50-105 | 145.2 | 1.53 | 30 | |
| 2-Chlorophenol | 121.2 | 50 | 200 | 0 | 60.6 | 35-105 | 149.9 | 21.2 | 30 | |
| 2-Methylnaphthalene | 139.9 | 50 | 200 | 0 | 70 | 45-105 | 143.1 | 2.26 | 30 | |
| 2-Methylphenol | 97.7 | 50 | 200 | 0 | 48.8 | 40-110 | 128.6 | 27.3 | 30 | |
| 2-Nitroaniline | 169.9 | 200 | 200 | 0 | 85 | 50-115 | 174.3 | 0 | 30 | J |
| 2-Nitrophenol | 134.2 | 50 | 200 | 0 | 67.1 | 40-115 | 140.2 | 4.37 | 30 | |
| 3-Nitroaniline | 147.8 | 200 | 200 | 0 | 73.9 | 20-125 | 163.4 | 0 | 30 | J |
| 4,6-Dinitro-2-methylphenol | 204 | 200 | 200 | 0 | 102 | 40-130 | 205.4 | 0.684 | 30 | |
| 4-Bromophenyl phenyl ether | 163.9 | 50 | 200 | 0 | 82 | 50-115 | 169.8 | 3.54 | 30 | |
| 4-Chloro-3-methylphenol | 119.5 | 50 | 200 | 0 | 59.8 | 45-110 | 142.1 | 17.3 | 30 | |
| 4-Chloroaniline | 176.5 | 200 | 200 | 0 | 88.2 | 15-110 | 190.4 | 0 | 30 | J |
| 4-Chlorophenyl phenyl ether | 138.6 | 50 | 200 | 0 | 69.3 | 50-110 | 143.8 | 3.68 | 30 | |
| 4-Methylphenol | 85 | 50 | 200 | 0 | 42.5 | 30-110 | 117.3 | 31.9 | 30 | R |
| 4-Nitroaniline | 147.1 | 200 | 200 | 0 | 73.6 | 35-150 | 162.5 | 0 | 30 | J |
| 4-Nitrophenol | 66.1 | 200 | 200 | 0 | 33 | 1-58 | 74.9 | 0 | 0 | J |
| Acenaphthene | 148.9 | 50 | 200 | 0 | 74.4 | 45-110 | 152.4 | 2.32 | 30 | |
| Acenaphthylene | 145 | 50 | 200 | 0 | 72.5 | 50-105 | 150.6 | 3.79 | 30 | |
| Anthracene | 179.2 | 50 | 200 | 0 | 89.6 | 55-110 | 180.9 | 0.944 | 30 | |
| Benzo(a)anthracene | 176.8 | 50 | 200 | 0 | 88.4 | 55-110 | 178.6 | 1.01 | 30 | |
| Benzo(a)pyrene | 187.9 | 50 | 200 | 0 | 94 | 55-110 | 188.2 | 0.16 | 30 | |
| Benzo(b)fluoranthene | 193.6 | 50 | 200 | 0 | 96.8 | 45-120 | 190 | 1.88 | 30 | |
| Benzo(g,h,i)perylene | 202.4 | 50 | 200 | 0 | 101 | 40-125 | 203.2 | 0.394 | 30 | |
| Benzo(k)fluoranthene | 198 | 50 | 200 | 0 | 99 | 45-125 | 198.8 | 0.403 | 30 | |
| Bis(2-chloroethoxy)methane | 146 | 50 | 200 | 0 | 73 | 45-105 | 150.8 | 3.23 | 30 | |
| Bis(2-chloroethyl)ether | 159.3 | 50 | 200 | 0 | 79.6 | 35-110 | 156.4 | 1.84 | 30 | |
| Bis(2-chloroisopropyl)ether | 148.3 | 50 | 200 | 0 | 74.2 | 25-130 | 154.9 | 4.35 | 30 | |
| Bis(2-ethylhexyl)phthalate | 185.6 | 50 | 200 | 0 | 92.8 | 40-125 | 183.2 | 1.3 | 30 | |
| Butyl benzyl phthalate | 196 | 50 | 200 | 0 | 98 | 45-115 | 194.1 | 0.974 | 30 | |
| Carbazole | 216.2 | 100 | 200 | 0 | 108 | 50-150 | 211.2 | 2.34 | 30 | |
| Chrysene | 186.5 | 50 | 200 | 0 | 93.2 | 55-110 | 186.1 | 0.215 | 30 | |
| Dibenzo(a,h)anthracene | 198.9 | 50 | 200 | 0 | 99.4 | 40-125 | 196.7 | 1.11 | 30 | |
| Dibenzofuran | 146.4 | 50 | 200 | 0 | 73.2 | 55-105 | 149.9 | 2.36 | 30 | |
| Diethyl phthalate | 167.2 | 200 | 200 | 0 | 83.6 | 40-120 | 171 | 0 | 30 | J |
| Dimethyl phthalate | 160.9 | 200 | 200 | 0 | 80.4 | 25-125 | 164.5 | 0 | 30 | J |
| Di-n-butyl phthalate | 183.3 | 50 | 200 | 1.19 | 91.1 | 55-115 | 181.8 | 0.822 | 30 | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

# QC BATCH REPORT

Batch ID: **46334** Instrument ID **SVMS4** Method: **SW8270**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Di-n-octyl phthalate | 169.1 | 50 | 200 | 0 | 84.6 | 35-135 | 168.8 | 0.178 | 30 | |
| Fluoranthene | 193.3 | 50 | 200 | 0 | 96.6 | 55-115 | 194.4 | 0.567 | 30 | |
| Fluorene | 150.4 | 50 | 200 | 0 | 75.2 | 50-110 | 154.4 | 2.62 | 30 | |
| Hexachlorobenzene | 169 | 50 | 200 | 0 | 84.5 | 50-110 | 174.6 | 3.26 | 30 | |
| Hexachlorobutadiene | 125.1 | 50 | 200 | 0 | 62.6 | 25-105 | 133.1 | 6.2 | 30 | |
| Hexachlorocyclopentadiene | 109.8 | 200 | 200 | 0 | 54.9 | 25-105 | 110.4 | 0 | 30 | J |
| Hexachloroethane | 138.6 | 50 | 200 | 0 | 69.3 | 30-95 | 145.3 | 4.72 | 30 | |
| Indeno(1,2,3-cd)pyrene | 200.2 | 50 | 200 | 0 | 100 | 45-125 | 199.5 | 0.35 | 30 | |
| Isophorone | 154.8 | 50 | 200 | 0 | 77.4 | 50-110 | 157.3 | 1.6 | 30 | |
| Naphthalene | 137.5 | 50 | 200 | 0 | 68.8 | 40-100 | 142 | 3.22 | 30 | |
| Nitrobenzene | 149.3 | 50 | 200 | 0 | 74.6 | 45-110 | 153.6 | 2.84 | 30 | |
| N-Nitrosodi-n-propylamine | 154.3 | 50 | 200 | 0 | 77.2 | 35-130 | 157.7 | 2.18 | 30 | |
| N-Nitrosodiphenylamine | 173.3 | 50 | 200 | 0 | 86.6 | 50-110 | 182.6 | 5.23 | 30 | |
| Pentachlorophenol | 156.7 | 200 | 200 | 0 | 78.4 | 40-115 | 155.5 | 0 | 30 | J |
| Phenanthrene | 172.5 | 50 | 200 | 0 | 86.2 | 50-115 | 177.2 | 2.69 | 30 | |
| Phenol | 46.4 | 50 | 200 | 0 | 23.2 | 12-43 | 67.9 | 0 | 30 | J |
| Pyrene | 187.3 | 50 | 200 | 0 | 93.6 | 50-130 | 186.8 | 0.267 | 30 | |
| *Surr: 2,4,6-Tribromophenol* | *378.6* | 0 | *500* | 0 | *75.7* | *38-115* | 390.7 | *3.15* | *40* | |
| *Surr: 2-Fluorobiphenyl* | *326.6* | 0 | *500* | 0 | *65.3* | *32-100* | 340 | *4.02* | *40* | |
| *Surr: 2-Fluorophenol* | *159.3* | 0 | *500* | 0 | *31.9* | *22-59* | 227.1 | *35.1* | *40* | |
| *Surr: 4-Terphenyl-d14* | *475.2* | 0 | *500* | 0 | *95* | *23-112* | 514.5 | *7.94* | *40* | |
| *Surr: Nitrobenzene-d5* | *351.2* | 0 | *500* | 0 | *70.2* | *31-93* | 357.5 | *1.78* | *40* | |
| *Surr: Phenol-d6* | *102.1* | 0 | *500* | 0 | *20.4* | *13-36* | 138.7 | *30.4* | *40* | |

**The following samples were analyzed in this batch:**

| | | |
|---|---|---|
| 1302259-01B | 1302259-02B | 1302259-03B |
| 1302259-04B | 1302259-05B | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302259
**Project:** Rock-Tenn 2/6/13

# QC BATCH REPORT

Batch ID: **R116087A** Instrument ID **VMS7** Method: **SW8260**

**MBLK** Sample ID: **VBLKW2-130208-R116087A** Units: **µg/L** Analysis Date: **2/9/2013 03:54 AM**
Client ID: Run ID: **VMS7_130208B** SeqNo: **2212159** Prep Date: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 1.0 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 1.0 | | | | | | | | |
| 1,1-Dichloroethane | ND | 1.0 | | | | | | | | |
| 1,1-Dichloroethene | ND | 1.0 | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 1.0 | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | | | | | | | | |
| 1,2-Dibromoethane | ND | 1.0 | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 1.0 | | | | | | | | |
| 1,2-Dichloroethane | ND | 1.0 | | | | | | | | |
| 1,2-Dichloropropane | ND | 2.0 | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 2.0 | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 2.0 | | | | | | | | |
| 2-Butanone | ND | 5.0 | | | | | | | | |
| 2-Hexanone | ND | 5.0 | | | | | | | | |
| 2-Methylnaphthalene | ND | 10 | | | | | | | | |
| 4-Methyl-2-pentanone | ND | 5.0 | | | | | | | | |
| Acetone | ND | 20 | | | | | | | | |
| Acrylonitrile | ND | 1.0 | | | | | | | | |
| Benzene | ND | 1.0 | | | | | | | | |
| Bromochloromethane | ND | 1.0 | | | | | | | | |
| Bromodichloromethane | ND | 1.0 | | | | | | | | |
| Bromomethane | ND | 1.0 | | | | | | | | |
| Carbon disulfide | ND | 2.5 | | | | | | | | |
| Carbon tetrachloride | ND | 1.0 | | | | | | | | |
| Chlorobenzene | ND | 1.0 | | | | | | | | |
| Chloroethane | ND | 1.0 | | | | | | | | |
| Chloroform | ND | 1.0 | | | | | | | | |
| Chloromethane | ND | 1.0 | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 1.0 | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 1.0 | | | | | | | | |
| Dibromochloromethane | ND | 1.0 | | | | | | | | |
| Dibromomethane | ND | 1.0 | | | | | | | | |
| Dichlorodifluoromethane | ND | 1.0 | | | | | | | | |
| Diethyl ether | ND | 10 | | | | | | | | |
| Ethylbenzene | ND | 1.0 | | | | | | | | |
| Hexachloroethane | ND | 1.0 | | | | | | | | |
| Isopropylbenzene | ND | 1.0 | | | | | | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

# QC BATCH REPORT

Batch ID: **R116087A** Instrument ID **VMS7** Method: **SW8260**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| m,p-Xylene | ND | 2.0 | | | | | | |
| Methyl iodide | ND | 5.0 | | | | | | |
| Methyl tert-butyl ether | ND | 5.0 | | | | | | |
| Naphthalene | 0.65 | 5.0 | | | | | | J |
| n-Propylbenzene | ND | 1.0 | | | | | | |
| o-Xylene | ND | 1.0 | | | | | | |
| Styrene | ND | 1.0 | | | | | | |
| Tetrachloroethene | ND | 2.0 | | | | | | |
| Toluene | ND | 1.0 | | | | | | |
| trans-1,2-Dichloroethene | ND | 1.0 | | | | | | |
| trans-1,3-Dichloropropene | ND | 1.0 | | | | | | |
| trans-1,4-Dichloro-2-butene | ND | 5.0 | | | | | | |
| Trichloroethene | ND | 1.0 | | | | | | |
| Trichlorofluoromethane | ND | 1.0 | | | | | | |
| Vinyl acetate | ND | 1.0 | | | | | | |
| Vinyl chloride | ND | 1.0 | | | | | | |
| Xylenes, Total | ND | 3.0 | | | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *17.23* | 0 | *20* | 0 | *86.2* | *70-120* | 0 | |
| *Surr: 4-Bromofluorobenzene* | *20.59* | 0 | *20* | 0 | *103* | *75-120* | 0 | |
| *Surr: Dibromofluoromethane* | *18.37* | 0 | *20* | 0 | *91.8* | *85-115* | 0 | |
| *Surr: Toluene-d8* | *18.48* | 0 | *20* | 0 | *92.4* | *85-120* | 0 | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302259
**Project:** Rock-Tenn 2/6/13

# QC BATCH REPORT

Batch ID: **R116087A** Instrument ID **VMS7** Method: **SW8260**

**LCS** Sample ID: **VLCSW2-130208-R116087A** Units: **µg/L** Analysis Date: **2/9/2013 03:02 AM**
Client ID: Run ID: **VMS7_130208B** SeqNo: **2212158** Prep Date: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 19.44 | 1.0 | 20 | 0 | 97.2 | 80-130 | 0 | | | |
| 1,1,1-Trichloroethane | 20.35 | 1.0 | 20 | 0 | 102 | 65-130 | 0 | | | |
| 1,1,2,2-Tetrachloroethane | 19.23 | 1.0 | 20 | 0 | 96.2 | 65-130 | 0 | | | |
| 1,1,2-Trichloroethane | 18.03 | 1.0 | 20 | 0 | 90.2 | 75-125 | 0 | | | |
| 1,1-Dichloroethane | 19.42 | 1.0 | 20 | 0 | 97.1 | 70-135 | 0 | | | |
| 1,1-Dichloroethene | 21.2 | 1.0 | 20 | 0 | 106 | 70-130 | 0 | | | |
| 1,2,3-Trichloropropane | 19.7 | 1.0 | 20 | 0 | 98.5 | 75-125 | 0 | | | |
| 1,2,4-Trichlorobenzene | 19.01 | 1.0 | 20 | 0 | 95 | 65-135 | 0 | | | |
| 1,2,4-Trimethylbenzene | 19.71 | 1.0 | 20 | 0 | 98.6 | 75-130 | 0 | | | |
| 1,2-Dibromo-3-chloropropane | 18.78 | 1.0 | 20 | 0 | 93.9 | 50-130 | 0 | | | |
| 1,2-Dibromoethane | 19.5 | 1.0 | 20 | 0 | 97.5 | 80-120 | 0 | | | |
| 1,2-Dichlorobenzene | 18.65 | 1.0 | 20 | 0 | 93.2 | 70-120 | 0 | | | |
| 1,2-Dichloroethane | 19.86 | 1.0 | 20 | 0 | 99.3 | 70-130 | 0 | | | |
| 1,2-Dichloropropane | 19.08 | 2.0 | 20 | 0 | 95.4 | 75-125 | 0 | | | |
| 1,3,5-Trimethylbenzene | 19.63 | 1.0 | 20 | 0 | 98.2 | 75-130 | 0 | | | |
| 1,3-Dichlorobenzene | 18.5 | 2.0 | 20 | 0 | 92.5 | 75-125 | 0 | | | |
| 1,4-Dichlorobenzene | 18.46 | 2.0 | 20 | 0 | 92.3 | 75-125 | 0 | | | |
| 2-Butanone | 21.73 | 5.0 | 20 | 0 | 109 | 30-150 | 0 | | | |
| 2-Hexanone | 20.31 | 5.0 | 20 | 0 | 102 | 55-130 | 0 | | | |
| 4-Methyl-2-pentanone | 25.84 | 5.0 | 20 | 0 | 129 | 60-135 | 0 | | | |
| Acetone | 22.56 | 20 | 20 | 0 | 113 | 40-140 | 0 | | | |
| Acrylonitrile | 20.03 | 1.0 | 20 | 0 | 100 | 70-135 | 0 | | | |
| Benzene | 19.63 | 1.0 | 20 | 0 | 98.2 | 80-120 | 0 | | | |
| Bromochloromethane | 19.65 | 1.0 | 20 | 0 | 98.2 | 65-130 | 0 | | | |
| Bromodichloromethane | 19.49 | 1.0 | 20 | 0 | 97.4 | 75-120 | 0 | | | |
| Bromomethane | 17.46 | 1.0 | 20 | 0 | 87.3 | 30-145 | 0 | | | |
| Carbon disulfide | 21.82 | 2.5 | 20 | 0 | 109 | 35-165 | 0 | | | |
| Carbon tetrachloride | 22.43 | 1.0 | 20 | 0 | 112 | 65-140 | 0 | | | |
| Chlorobenzene | 19.07 | 1.0 | 20 | 0 | 95.4 | 80-120 | 0 | | | |
| Chloroethane | 17.76 | 1.0 | 20 | 0 | 88.8 | 60-135 | 0 | | | |
| Chloroform | 19.62 | 1.0 | 20 | 0 | 98.1 | 65-135 | 0 | | | |
| Chloromethane | 15.7 | 1.0 | 20 | 0 | 78.5 | 70-125 | 0 | | | |
| cis-1,2-Dichloroethene | 19.15 | 1.0 | 20 | 0 | 95.8 | 70-125 | 0 | | | |
| cis-1,3-Dichloropropene | 19.27 | 1.0 | 20 | 0 | 96.4 | 70-130 | 0 | | | |
| Dibromochloromethane | 17.93 | 1.0 | 20 | 0 | 89.6 | 60-135 | 0 | | | |
| Dibromomethane | 19.85 | 1.0 | 20 | 0 | 99.2 | 75-125 | 0 | | | |
| Dichlorodifluoromethane | 15.82 | 1.0 | 20 | 0 | 79.1 | 30-155 | 0 | | | |
| Ethylbenzene | 19.54 | 1.0 | 20 | 0 | 97.7 | 75-125 | 0 | | | |
| Hexachloroethane | 16.3 | 1.0 | 20 | 0 | 81.5 | 70-135 | 0 | | | |
| Isopropylbenzene | 19.67 | 1.0 | 20 | 0 | 98.4 | 75-125 | 0 | | | |
| m,p-Xylene | 39.16 | 2.0 | 40 | 0 | 97.9 | 75-130 | 0 | | | |
| Methyl iodide | 25.24 | 5.0 | 20 | 0 | 126 | 70-135 | 0 | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

# QC BATCH REPORT

Batch ID: **R116087A** Instrument ID **VMS7** Method: **SW8260**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 21.36 | 5.0 | 20 | 0 | 107 | 65-125 | 0 |
| Naphthalene | 19.49 | 5.0 | 20 | 0 | 97.4 | 55-140 | 0 |
| n-Propylbenzene | 19.51 | 1.0 | 20 | 0 | 97.6 | 70-130 | 0 |
| o-Xylene | 19.72 | 1.0 | 20 | 0 | 98.6 | 80-120 | 0 |
| Styrene | 20.55 | 1.0 | 20 | 0 | 103 | 65-135 | 0 |
| Tetrachloroethene | 19.46 | 2.0 | 20 | 0 | 97.3 | 45-150 | 0 |
| Toluene | 18.97 | 1.0 | 20 | 0 | 94.8 | 75-120 | 0 |
| trans-1,2-Dichloroethene | 20.36 | 1.0 | 20 | 0 | 102 | 60-140 | 0 |
| trans-1,3-Dichloropropene | 18.28 | 1.0 | 20 | 0 | 91.4 | 55-140 | 0 |
| trans-1,4-Dichloro-2-butene | 17.36 | 5.0 | 20 | 0 | 86.8 | 70-135 | 0 |
| Trichloroethene | 19.99 | 1.0 | 20 | 0 | 100 | 70-125 | 0 |
| Trichlorofluoromethane | 21.67 | 1.0 | 20 | 0 | 108 | 60-145 | 0 |
| Vinyl chloride | 18.29 | 1.0 | 20 | 0 | 91.4 | 50-145 | 0 |
| Xylenes, Total | 58.88 | 3.0 | 60 | 0 | 98.1 | 75-130 | 0 |
| *Surr: 1,2-Dichloroethane-d4* | *17.24* | 0 | *20* | 0 | *86.2* | *70-120* | 0 |
| *Surr: 4-Bromofluorobenzene* | *21.06* | 0 | *20* | 0 | *105* | *75-120* | 0 |
| *Surr: Dibromofluoromethane* | *18.44* | 0 | *20* | 0 | *92.2* | *85-115* | 0 |
| *Surr: Toluene-d8* | *18.09* | 0 | *20* | 0 | *90.4* | *85-120* | 0 |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302259
**Project:** Rock-Tenn 2/6/13

# QC BATCH REPORT

Batch ID: **R116087A** Instrument ID **VMS7** Method: **SW8260**

**MS** Sample ID: **1302260-01A MS** Units: **µg/L** Analysis Date: **2/9/2013 01:14 PM**
Client ID: Run ID: **VMS7_130208B** SeqNo: **2212424** Prep Date: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 16.06 | 1.0 | 20 | 0 | 80.3 | 80-130 | 0 | | | |
| 1,1,1-Trichloroethane | 18.78 | 1.0 | 20 | 0 | 93.9 | 65-130 | 0 | | | |
| 1,1,2,2-Tetrachloroethane | 17.44 | 1.0 | 20 | 0 | 87.2 | 65-130 | 0 | | | |
| 1,1,2-Trichloroethane | 16.67 | 1.0 | 20 | 0 | 83.4 | 75-125 | 0 | | | |
| 1,1-Dichloroethane | 19.1 | 1.0 | 20 | 0 | 95.5 | 70-135 | 0 | | | |
| 1,1-Dichloroethene | 20.42 | 1.0 | 20 | 0 | 102 | 70-130 | 0 | | | |
| 1,2,3-Trichloropropane | 17.78 | 1.0 | 20 | 0 | 88.9 | 75-125 | 0 | | | |
| 1,2,4-Trichlorobenzene | 15.86 | 1.0 | 20 | 0 | 79.3 | 65-135 | 0 | | | |
| 1,2,4-Trimethylbenzene | 16.34 | 1.0 | 20 | 0 | 81.7 | 75-130 | 0 | | | |
| 1,2-Dibromo-3-chloropropane | 14.99 | 1.0 | 20 | 0 | 75 | 50-130 | 0 | | | |
| 1,2-Dibromoethane | 17.4 | 1.0 | 20 | 0 | 87 | 80-120 | 0 | | | |
| 1,2-Dichlorobenzene | 16.96 | 1.0 | 20 | 0 | 84.8 | 70-120 | 0 | | | |
| 1,2-Dichloroethane | 18.67 | 1.0 | 20 | 0 | 93.4 | 70-130 | 0 | | | |
| 1,2-Dichloropropane | 17.84 | 2.0 | 20 | 0 | 89.2 | 75-125 | 0 | | | |
| 1,3,5-Trimethylbenzene | 16.4 | 1.0 | 20 | 0 | 82 | 75-130 | 0 | | | |
| 1,3-Dichlorobenzene | 16.55 | 2.0 | 20 | 0 | 82.8 | 75-125 | 0 | | | |
| 1,4-Dichlorobenzene | 16.41 | 2.0 | 20 | 0 | 82 | 75-125 | 0 | | | |
| 2-Butanone | 20.29 | 5.0 | 20 | 0 | 101 | 30-150 | 0 | | | |
| 2-Hexanone | 19.5 | 5.0 | 20 | 0 | 97.5 | 55-130 | 0 | | | |
| 4-Methyl-2-pentanone | 24.22 | 5.0 | 20 | 0 | 121 | 60-135 | 0 | | | |
| Acetone | 24.39 | 20 | 20 | 0 | 122 | 40-140 | 0 | | | |
| Acrylonitrile | 18.62 | 1.0 | 20 | 0 | 93.1 | 70-135 | 0 | | | |
| Benzene | 18.47 | 1.0 | 20 | 0 | 92.4 | 80-120 | 0 | | | |
| Bromochloromethane | 18.65 | 1.0 | 20 | 0 | 93.2 | 65-130 | 0 | | | |
| Bromodichloromethane | 17.33 | 1.0 | 20 | 0 | 86.6 | 75-120 | 0 | | | |
| Bromomethane | 17.1 | 1.0 | 20 | 0 | 85.5 | 30-145 | 0 | | | |
| Carbon disulfide | 19.58 | 2.5 | 20 | 0 | 97.9 | 35-165 | 0 | | | |
| Carbon tetrachloride | 19.28 | 1.0 | 20 | 0 | 96.4 | 65-140 | 0 | | | |
| Chlorobenzene | 16.68 | 1.0 | 20 | 0 | 83.4 | 80-120 | 0 | | | |
| Chloroethane | 17.3 | 1.0 | 20 | 0 | 86.5 | 60-135 | 0 | | | |
| Chloroform | 19.22 | 1.0 | 20 | 0 | 96.1 | 65-135 | 0 | | | |
| Chloromethane | 16.14 | 1.0 | 20 | 0 | 80.7 | 70-125 | 0 | | | |
| cis-1,2-Dichloroethene | 17.77 | 1.0 | 20 | 0 | 88.8 | 70-125 | 0 | | | |
| cis-1,3-Dichloropropene | 16.56 | 1.0 | 20 | 0 | 82.8 | 70-130 | 0 | | | |
| Dibromochloromethane | 14.73 | 1.0 | 20 | 0 | 73.6 | 60-135 | 0 | | | |
| Dibromomethane | 18.38 | 1.0 | 20 | 0 | 91.9 | 75-125 | 0 | | | |
| Dichlorodifluoromethane | 14.43 | 1.0 | 20 | 0 | 72.2 | 30-155 | 0 | | | |
| Ethylbenzene | 16.97 | 1.0 | 20 | 0 | 84.8 | 75-125 | 0 | | | |
| Hexachloroethane | 12.21 | 1.0 | 20 | 0 | 61 | 70-135 | 0 | | | S |
| Isopropylbenzene | 16.37 | 1.0 | 20 | 0 | 81.8 | 75-125 | 0 | | | |
| m,p-Xylene | 33.29 | 2.0 | 40 | 0 | 83.2 | 75-130 | 0 | | | |
| Methyl iodide | 20.98 | 5.0 | 20 | 0 | 105 | 70-135 | 0 | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

# QC BATCH REPORT

Batch ID: **R116087A** Instrument ID **VMS7** Method: **SW8260**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 21.3 | 5.0 | 20 | 0 | 106 | 65-125 | 0 | |
| Naphthalene | 16.34 | 5.0 | 20 | 0 | 81.7 | 55-140 | 0 | |
| n-Propylbenzene | 15.85 | 1.0 | 20 | 0 | 79.2 | 70-130 | 0 | |
| o-Xylene | 17.1 | 1.0 | 20 | 0 | 85.5 | 80-120 | 0 | |
| Styrene | 17.59 | 1.0 | 20 | 0 | 88 | 65-135 | 0 | |
| Tetrachloroethene | 16.85 | 2.0 | 20 | 0 | 84.2 | 45-150 | 0 | |
| Toluene | 16.95 | 1.0 | 20 | 0 | 84.8 | 75-120 | 0 | |
| trans-1,2-Dichloroethene | 19.34 | 1.0 | 20 | 0 | 96.7 | 60-140 | 0 | |
| trans-1,3-Dichloropropene | 15.06 | 1.0 | 20 | 0 | 75.3 | 55-140 | 0 | |
| trans-1,4-Dichloro-2-butene | 12.28 | 5.0 | 20 | 0 | 61.4 | 70-135 | 0 | S |
| Trichloroethene | 17.96 | 1.0 | 20 | 0 | 89.8 | 70-125 | 0 | |
| Trichlorofluoromethane | 20.13 | 1.0 | 20 | 0 | 101 | 60-145 | 0 | |
| Vinyl chloride | 19.1 | 1.0 | 20 | 0 | 95.5 | 50-145 | 0 | |
| Xylenes, Total | 50.39 | 3.0 | 60 | 0 | 84 | 75-130 | 0 | |
| *Surr: 1,2-Dichloroethane-d4* | *17.08* | 0 | *20* | 0 | *85.4* | *70-120* | 0 | |
| *Surr: 4-Bromofluorobenzene* | *20.82* | 0 | *20* | 0 | *104* | *75-120* | 0 | |
| *Surr: Dibromofluoromethane* | *17.47* | 0 | *20* | 0 | *87.4* | *85-115* | 0 | |
| *Surr: Toluene-d8* | *17.57* | 0 | *20* | 0 | *87.8* | *85-120* | 0 | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302259
**Project:** Rock-Tenn 2/6/13

# QC BATCH REPORT

Batch ID: **R116087A** Instrument ID **VMS7** Method: **SW8260**

**MSD** Sample ID: **1302260-01A MSD** Units: **µg/L** Analysis Date: **2/9/2013 01:41 PM**
Client ID: Run ID: **VMS7_130208B** SeqNo: **2212425** Prep Date: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 16.34 | 1.0 | 20 | 0 | 81.7 | 80-130 | 16.06 | 1.73 | 30 | |
| 1,1,1-Trichloroethane | 19.25 | 1.0 | 20 | 0 | 96.2 | 65-130 | 18.78 | 2.47 | 30 | |
| 1,1,2,2-Tetrachloroethane | 16.91 | 1.0 | 20 | 0 | 84.6 | 65-130 | 17.44 | 3.09 | 30 | |
| 1,1,2-Trichloroethane | 16.24 | 1.0 | 20 | 0 | 81.2 | 75-125 | 16.67 | 2.61 | 30 | |
| 1,1-Dichloroethane | 18.87 | 1.0 | 20 | 0 | 94.4 | 70-135 | 19.1 | 1.21 | 30 | |
| 1,1-Dichloroethene | 20.08 | 1.0 | 20 | 0 | 100 | 70-130 | 20.42 | 1.68 | 30 | |
| 1,2,3-Trichloropropane | 17.2 | 1.0 | 20 | 0 | 86 | 75-125 | 17.78 | 3.32 | 30 | |
| 1,2,4-Trichlorobenzene | 16.17 | 1.0 | 20 | 0 | 80.8 | 65-135 | 15.86 | 1.94 | 30 | |
| 1,2,4-Trimethylbenzene | 16.25 | 1.0 | 20 | 0 | 81.2 | 75-130 | 16.34 | 0.552 | 30 | |
| 1,2-Dibromo-3-chloropropane | 14.77 | 1.0 | 20 | 0 | 73.8 | 50-130 | 14.99 | 1.48 | 30 | |
| 1,2-Dibromoethane | 17.48 | 1.0 | 20 | 0 | 87.4 | 80-120 | 17.4 | 0.459 | 30 | |
| 1,2-Dichlorobenzene | 16.72 | 1.0 | 20 | 0 | 83.6 | 70-120 | 16.96 | 1.43 | 30 | |
| 1,2-Dichloroethane | 18.6 | 1.0 | 20 | 0 | 93 | 70-130 | 18.67 | 0.376 | 30 | |
| 1,2-Dichloropropane | 18.31 | 2.0 | 20 | 0 | 91.6 | 75-125 | 17.84 | 2.6 | 30 | |
| 1,3,5-Trimethylbenzene | 16.5 | 1.0 | 20 | 0 | 82.5 | 75-130 | 16.4 | 0.608 | 30 | |
| 1,3-Dichlorobenzene | 16.19 | 2.0 | 20 | 0 | 81 | 75-125 | 16.55 | 2.2 | 30 | |
| 1,4-Dichlorobenzene | 16.35 | 2.0 | 20 | 0 | 81.8 | 75-125 | 16.41 | 0.366 | 30 | |
| 2-Butanone | 19.16 | 5.0 | 20 | 0 | 95.8 | 30-150 | 20.29 | 5.73 | 30 | |
| 2-Hexanone | 18.57 | 5.0 | 20 | 0 | 92.8 | 55-130 | 19.5 | 4.89 | 30 | |
| 4-Methyl-2-pentanone | 23.65 | 5.0 | 20 | 0 | 118 | 60-135 | 24.22 | 2.38 | 30 | |
| Acetone | 24.12 | 20 | 20 | 0 | 121 | 40-140 | 24.39 | 1.11 | 30 | |
| Acrylonitrile | 18.72 | 1.0 | 20 | 0 | 93.6 | 70-135 | 18.62 | 0.536 | 30 | |
| Benzene | 18.61 | 1.0 | 20 | 0 | 93 | 80-120 | 18.47 | 0.755 | 30 | |
| Bromochloromethane | 18.93 | 1.0 | 20 | 0 | 94.6 | 65-130 | 18.65 | 1.49 | 30 | |
| Bromodichloromethane | 17.49 | 1.0 | 20 | 0 | 87.4 | 75-120 | 17.33 | 0.919 | 30 | |
| Bromomethane | 17.3 | 1.0 | 20 | 0 | 86.5 | 30-145 | 17.1 | 1.16 | 30 | |
| Carbon disulfide | 19.69 | 2.5 | 20 | 0 | 98.4 | 35-165 | 19.58 | 0.56 | 30 | |
| Carbon tetrachloride | 19.09 | 1.0 | 20 | 0 | 95.4 | 65-140 | 19.28 | 0.99 | 30 | |
| Chlorobenzene | 16.85 | 1.0 | 20 | 0 | 84.2 | 80-120 | 16.68 | 1.01 | 30 | |
| Chloroethane | 17.93 | 1.0 | 20 | 0 | 89.6 | 60-135 | 17.3 | 3.58 | 30 | |
| Chloroform | 18.65 | 1.0 | 20 | 0 | 93.2 | 65-135 | 19.22 | 3.01 | 30 | |
| Chloromethane | 16.6 | 1.0 | 20 | 0 | 83 | 70-125 | 16.14 | 2.81 | 30 | |
| cis-1,2-Dichloroethene | 17.57 | 1.0 | 20 | 0 | 87.8 | 70-125 | 17.77 | 1.13 | 30 | |
| cis-1,3-Dichloropropene | 16.68 | 1.0 | 20 | 0 | 83.4 | 70-130 | 16.56 | 0.722 | 30 | |
| Dibromochloromethane | 14.96 | 1.0 | 20 | 0 | 74.8 | 60-135 | 14.73 | 1.55 | 30 | |
| Dibromomethane | 18.24 | 1.0 | 20 | 0 | 91.2 | 75-125 | 18.38 | 0.765 | 30 | |
| Dichlorodifluoromethane | 14.54 | 1.0 | 20 | 0 | 72.7 | 30-155 | 14.43 | 0.759 | 30 | |
| Ethylbenzene | 16.87 | 1.0 | 20 | 0 | 84.4 | 75-125 | 16.97 | 0.591 | 30 | |
| Hexachloroethane | 12.22 | 1.0 | 20 | 0 | 61.1 | 70-135 | 12.21 | 0.0819 | 30 | S |
| Isopropylbenzene | 16.47 | 1.0 | 20 | 0 | 82.4 | 75-125 | 16.37 | 0.609 | 30 | |
| m,p-Xylene | 33.42 | 2.0 | 40 | 0 | 83.6 | 75-130 | 33.29 | 0.39 | 30 | |
| Methyl iodide | 21.76 | 5.0 | 20 | 0 | 109 | 70-135 | 20.98 | 3.65 | 30 | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302259
**Project:** Rock-Tenn 2/6/13

# QC BATCH REPORT

Batch ID: **R116087A** Instrument ID **VMS7** Method: **SW8260**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 21.28 | 5.0 | 20 | 0 | 106 | 65-125 | 21.3 | 0.0939 | 30 | |
| Naphthalene | 16.52 | 5.0 | 20 | 0 | 82.6 | 55-140 | 16.34 | 1.1 | 30 | |
| n-Propylbenzene | 15.89 | 1.0 | 20 | 0 | 79.4 | 70-130 | 15.85 | 0.252 | 30 | |
| o-Xylene | 16.99 | 1.0 | 20 | 0 | 85 | 80-120 | 17.1 | 0.645 | 30 | |
| Styrene | 17.7 | 1.0 | 20 | 0 | 88.5 | 65-135 | 17.59 | 0.623 | 30 | |
| Tetrachloroethene | 16.68 | 2.0 | 20 | 0 | 83.4 | 45-150 | 16.85 | 1.01 | 30 | |
| Toluene | 16.93 | 1.0 | 20 | 0 | 84.6 | 75-120 | 16.95 | 0.118 | 30 | |
| trans-1,2-Dichloroethene | 19.62 | 1.0 | 20 | 0 | 98.1 | 60-140 | 19.34 | 1.44 | 30 | |
| trans-1,3-Dichloropropene | 15.36 | 1.0 | 20 | 0 | 76.8 | 55-140 | 15.06 | 1.97 | 30 | |
| trans-1,4-Dichloro-2-butene | 11.88 | 5.0 | 20 | 0 | 59.4 | 70-135 | 12.28 | 3.31 | 30 | S |
| Trichloroethene | 18.28 | 1.0 | 20 | 0 | 91.4 | 70-125 | 17.96 | 1.77 | 30 | |
| Trichlorofluoromethane | 20.32 | 1.0 | 20 | 0 | 102 | 60-145 | 20.13 | 0.939 | 30 | |
| Vinyl chloride | 18.96 | 1.0 | 20 | 0 | 94.8 | 50-145 | 19.1 | 0.736 | 30 | |
| Xylenes, Total | 50.41 | 3.0 | 60 | 0 | 84 | 75-130 | 50.39 | 0.0397 | 30 | |
| *Surr: 1,2-Dichloroethane-d4* | *16.91* | 0 | *20* | 0 | *84.6* | *70-120* | 17.08 | *1* | *30* | |
| *Surr: 4-Bromofluorobenzene* | *20.98* | 0 | *20* | 0 | *105* | *75-120* | 20.82 | *0.766* | *30* | |
| *Surr: Dibromofluoromethane* | *18.22* | 0 | *20* | 0 | *91.1* | *85-115* | 17.47 | *4.2* | *30* | |
| *Surr: Toluene-d8* | *17.85* | 0 | *20* | 0 | *89.2* | *85-120* | 17.57 | *1.58* | *30* | |

**The following samples were analyzed in this batch:**

| | | |
|---|---|---|
| 1302259-01A | 1302259-02A | 1302259-03A |
| 1302259-04A | 1302259-05A | 1302259-06A |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

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Everett, WA +1 425 356 2600 | Holland, MI +1 616 399 6070 | Middletown, PA +1 717 944 5541 | Salt Lake City, UT +1 801 266 7700 | York, PA +1 717 505 5280

# Chain of Custody Form

Page 1 of 1

COC ID: 70112

ALS Project Manager: AT | ALS Work Order #: 1302259

| Customer Information | | Project Information | | Parameter/Method Request for Analysis | |
|---|---|---|---|---|---|
| Purchase Order | | Project Name | Rock Tenn Site | A | MDEQ Plus Volatiles |
| Work Order | | Project Number | | B | TCL List Semi-Volatiles |
| Company Name | ECT, Inc | Bill To Company | ECT, Inc | C | MI 10 Metals Plus, B, Mg, Fe, Tl |
| Send Report To | John D'Addona | Invoice Attn | John D'Addona | D | PCBs |
| Address | 2200 Commonwealth Blvd<br>Suite 300 | Address | 2200 Commonwealth Blvd<br>Suite 300 | E | BTEX, TMBs -Light Distillate Oil |
| | | | | F | PNAs-Light Distillate Oil |
| City/State/Zip | Ann Arbor, MI 48105 | City/State/Zip | Ann Arbor, MI 48105 | G | % Moisture |
| Phone | (734) 769-3004 | Phone | (734) 769-3004 | H | This sample point needs MS/MSD |
| Fax | (734) 769-3164 | Fax | (734) 769-3164 | I | |
| e-Mail Address | | e-Mail Address | | J | |

| No. | Sample Description | | Date | Time | Matrix | Pres. | # Bottles | A | B | C | D | E | F | G | H | I | J | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | RTGB-1-W | (1) | 2/06/13 | 1020 | W | HCl | 3 | X | | | | | | | | | | |
| 2 | RTGB-1-W | | 2/06/13 | 1020 | W | — | 2 | | X | | | | | | | | | |
| 3 | RTGB-2-W | (2) | 2/06/13 | 1205 | W | HCl | 3 | X | | | | | | | | | | |
| 4 | RTGB-2-W | | 2/06/13 | 1205 | W | — | 2 | | X | | | | | | | | | |
| 5 | RTGB-3-W | (3) | 2/06/13 | 1340 | W | HCl | 3 | X | | | | | | | | | | |
| 6 | RTGB-3-W | | 2/06/13 | 1340 | W | — | 2 | | X | | | | | | | | | |
| 7 | RT-GB-4-W | (4) | 2/06/13 | 1500 | W | HCl | 3 | X | | | | | | | | | | |
| 8 | RT-GB-4-W | | 2/06/13 | 1500 | W | — | 2 | | X | | | | | | | | | |
| 9 | RT-GB-5-W | (5) | 2/06/13 | 1630 | W | HCl | 3 | X | | | | | | | | | | |
| 10 | RT-GB-5-W | | 2/06/13 | 1630 | W | — | 2 | | X | | | | | | | | | |

Sampler(s) Please Print & Sign: Jason Bartholomew

Shipment Method: cooler

Required Turnaround Time: (Check Box) ☐ Std 10 WK Days ☑ 5 WK Days ☐ 2 WK Days ☐ 24 Hour ☐ Other

Results Due Date:

| | | | | |
|---|---|---|---|---|
| Relinquished by: | Date: 2/7/13 | Time: 1620 | Received by: | Notes: (6) TRIP BLANK |
| Relinquished by: | Date: 2/7/13 | Time: 1730 | Received by (Laboratory): | |
| Logged by (Laboratory): KR | Date: 2/8/13 | Time: 1010 | Checked by (Laboratory): | |

| Cooler ID | Cooler Temp. |
|---|---|
| | 3.6 °C |

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ Level III Std QC/Raw Data ☐ Level IV SW846/CLP ☐ TRRP CheckList ☐ TRRP Level IV ☐ Other

Preservative Key: 1-HCl 2-$HNO_3$ 3-$H_2SO_4$ 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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ALS Group USA, Corp

## Sample Receipt Checklist

Client Name: **ECT-AA** Date/Time Received: **07-Feb-13 17:30**

Work Order: **1302259** Received by: **KRW**

Checklist completed by Keith Wierenga (eSignature) 08-Feb-13 (Date) Reviewed by: Alex Csaszar (eSignature) 08-Feb-13 (Date)

Matrices: Water
Carrier name: ALSHN

| | | | |
|---|---|---|---|
| Shipping container/cooler in good condition? | Yes ☑ | No ☐ | Not Present ☐ |
| Custody seals intact on shipping container/cooler? | Yes ☐ | No ☐ | Not Present ☑ |
| Custody seals intact on sample bottles? | Yes ☐ | No ☐ | Not Present ☑ |
| Chain of custody present? | Yes ☑ | No ☐ | |
| Chain of custody signed when relinquished and received? | Yes ☑ | No ☐ | |
| Chain of custody agrees with sample labels? | Yes ☑ | No ☐ | |
| Samples in proper container/bottle? | Yes ☑ | No ☐ | |
| Sample containers intact? | Yes ☑ | No ☐ | |
| Sufficient sample volume for indicated test? | Yes ☑ | No ☐ | |
| All samples received within holding time? | Yes ☑ | No ☐ | |
| Container/Temp Blank temperature in compliance? | Yes ☑ | No ☐ | |
| Temperature(s)/Thermometer(s): | 3.6 C | | |
| Cooler(s)/Kit(s): | | | |
| Date/Time sample(s) sent to storage: | 2/8/2013 10:19:29 AM | | |
| Water - VOA vials have zero headspace? | Yes ☑ | No ☐ | No VOA vials submitted ☐ |
| Water - pH acceptable upon receipt? | Yes ☑ | No ☐ | N/A ☐ |
| pH adjusted? | Yes ☐ | No ☑ | N/A ☐ |
| pH adjusted by: | - | | |

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

14-Feb-2013

John D`Addona
ECT, Inc
2200 Commonwealth Blvd
Suite 300
Ann Arbor, MI 48105

Re: **Rock-Tenn 2/7/13** Work Order: **1302260**

Dear John,

ALS Environmental received 7 samples on 07-Feb-2013 05:30 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 60.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Ann Preston

Electronically approved by: Ann Preston

Ann Preston
Project Manager

Certificate No: MN331938

# ALS Group USA, Corp

Date: 14-Feb-13

**Client:** ECT, Inc
**Project:** Rock-Tenn 2/7/13
**Work Order:** **1302260**

## Work Order Sample Summary

| Lab Samp ID | Client Sample ID | Matrix | Tag Number | Collection Date | Date Received | Hold |
|---|---|---|---|---|---|---|
| 1302260-01 | RT-GB-8W | Water | | 2/7/2013 08:45 | 2/7/2013 17:30 | ☐ |
| 1302260-02 | RT-GB-9W | Water | | 2/7/2013 11:55 | 2/7/2013 17:30 | ☐ |
| 1302260-03 | RT-GB-9W Dup | Water | | 2/7/2013 11:55 | 2/7/2013 17:30 | ☐ |
| 1302260-04 | EB-1 | Water | | 2/7/2013 14:00 | 2/7/2013 17:30 | ☐ |
| 1302260-05 | RT-GB-7W | Water | | 2/7/2013 14:16 | 2/7/2013 17:30 | ☐ |
| 1302260-06 | RT-GB-6W | Water | | 2/7/2013 15:30 | 2/7/2013 17:30 | ☐ |
| 1302260-07 | Trip Blank | Water | | 2/7/2013 | 2/7/2013 17:30 | ☐ |

## ALS Group USA, Corp

*Date: 14-Feb-13*

**Client:** ECT, Inc
**Project:** Rock-Tenn 2/7/13
**Work Order:** 1302260

# Case Narrative

Batch R116087A sample RT-GB-8W MS?MSD recoveries for Hexachloroethane and trans-1,4-Dichloro-2-butene were below the control limits. The corresponding reporting limits in the parent sample may be biased low for these compounds.

Batch 46334 sample RT-GB-8W RPD between the MS/MSD recoveries for 4-Methylphenol was above control limits. The individual MS/MSD recoveries met quality control criteria. No data requires qualification.

# ALS Group USA, Corp

Date: 14-Feb-13

**Client:** ECT, Inc
**Project:** Rock-Tenn 2/7/13
**WorkOrder:** **1302260**

## QUALIFIERS, ACRONYMS, UNITS

| Qualifier | Description |
|---|---|
| * | Value exceeds Regulatory Limit |
| a | Not accredited |
| B | Analyte detected in the associated Method Blank above the Reporting Limit |
| E | Value above quantitation range |
| H | Analyzed outside of Holding Time |
| J | Analyte detected below quantitation limit |
| n | Not offered for accreditation |
| ND | Not Detected at the Reporting Limit |
| O | Sample amount is > 4 times amount spiked |
| P | Dual Column results percent difference > 40% |
| R | RPD above laboratory control limit |
| S | Spike Recovery outside laboratory control limits |
| U | Analyzed but not detected above the MDL |

| Acronym | Description |
|---|---|
| DUP | Method Duplicate |
| LCS | Laboratory Control Sample |
| LCSD | Laboratory Control Sample Duplicate |
| MBLK | Method Blank |
| MDL | Method Detection Limit |
| MQL | Method Quantitation Limit |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| PDS | Post Digestion Spike |
| PQL | Practical Quantitation Limit |
| RPD | Relative Percent Difference |
| SD | Serial Dilution |
| TDL | Target Detection Limit |

| Units Reported | Description |
|---|---|
| µg/L | Micrograms per Liter |
| mg/L | Milligrams per Liter |

# ALS Group USA, Corp

**Date:** *14-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-8W |
| **Work Order:** | 1302260 | **Collection Date:** | 2/7/2013 8:45:00 AM |
| **Project:** | Rock-Tenn 2/7/13 | | |
| **Lab ID:** | 1302260-01 | **Matrix:** | WATER |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **MERCURY BY CVAA** | | | **SW7470** | | Prep Date: **2/11/2013** | | Analyst: **LR** |
| Mercury | ND | 0.00020 | 0.00020 | | mg/L | 1 | 2/11/2013 |
| **METALS BY ICP-MS** | | | **SW6020A** | | Prep Date: **2/11/2013** | | Analyst: **RH** |
| Arsenic | ND | 0.0050 | 0.0050 | | mg/L | 1 | 2/12/2013 |
| Barium | ND | 0.10 | 0.10 | | mg/L | 1 | 2/12/2013 |
| Boron | ND | 0.30 | 0.30 | | mg/L | 1 | 2/12/2013 |
| Cadmium | ND | 0.0010 | 0.0010 | | mg/L | 1 | 2/12/2013 |
| Chromium | ND | 0.010 | 0.010 | | mg/L | 1 | 2/12/2013 |
| Copper | ND | 0.0040 | 0.0040 | | mg/L | 1 | 2/12/2013 |
| **Iron** | **10** | **0.20** | **0.20** | | **mg/L** | 1 | 2/12/2013 |
| Lead | ND | 0.0030 | 0.0030 | | mg/L | 1 | 2/12/2013 |
| **Magnesium** | **32** | **1.0** | **1.0** | | **mg/L** | 1 | 2/12/2013 |
| Selenium | ND | 0.0050 | 0.0050 | | mg/L | 1 | 2/12/2013 |
| Silver | ND | 0.00020 | 0.00020 | | mg/L | 1 | 2/12/2013 |
| Thallium | ND | 0.0020 | 0.0020 | | mg/L | 1 | 2/12/2013 |
| **Zinc** | **0.32** | **0.050** | **0.050** | | **mg/L** | 1 | 2/12/2013 |
| **SEMI-VOLATILE ORGANIC COMPOUNDS** | | | **SW8270** | | Prep Date: **2/11/2013** | | Analyst: **HL** |
| 1,1`-Biphenyl | ND | 5.0 | 0 | | µg/L | 1 | 2/12/2013 |
| 2,4,5-Trichlorophenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2,4,6-Trichlorophenol | ND | 4.0 | 4.0 | | µg/L | 1 | 2/12/2013 |
| 2,4-Dichlorophenol | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 2,4-Dimethylphenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2,4-Dinitrophenol | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| 2,4-Dinitrotoluene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2,6-Dinitrotoluene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2-Chloronaphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2-Chlorophenol | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 2-Methylnaphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2-Methylphenol | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 2-Nitroaniline | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| 2-Nitrophenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 3,3´-Dichlorobenzidine | ND | 5.0 | 0.39 | | µg/L | 1 | 2/12/2013 |
| 3-Nitroaniline | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| 4,6-Dinitro-2-methylphenol | ND | 20 | 20 | | µg/L | 1 | 2/12/2013 |
| 4-Bromophenyl phenyl ether | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 4-Chloro-3-methylphenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 4-Chloroaniline | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 4-Chlorophenyl phenyl ether | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 4-Methylphenol | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *14-Feb-13*

**Client:** ECT, Inc
**Work Order:** 1302260
**Project:** Rock-Tenn 2/7/13
**Lab ID:** 1302260-01

**Client Sample ID:** RT-GB-8W
**Collection Date:** 2/7/2013 8:45:00 AM
**Matrix:** WATER

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| 4-Nitroaniline | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| 4-Nitrophenol | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| Acenaphthene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Acenaphthylene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Acetophenone | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| Anthracene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Atrazine | ND | 3.0 | 3.0 | | µg/L | 1 | 2/12/2013 |
| Benzaldehyde | ND | 1.0 | 0 | | µg/L | 1 | 2/12/2013 |
| Benzo(a)anthracene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Benzo(a)pyrene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Benzo(b)fluoranthene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Benzo(g,h,i)perylene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Benzo(k)fluoranthene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Bis(2-chloroethoxy)methane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Bis(2-chloroethyl)ether | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Bis(2-chloroisopropyl)ether | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Bis(2-ethylhexyl)phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Butyl benzyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Caprolactam | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| Carbazole | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| Chrysene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Dibenzo(a,h)anthracene | ND | 2.0 | 2.0 | | µg/L | 1 | 2/12/2013 |
| Dibenzofuran | ND | 4.0 | 4.0 | | µg/L | 1 | 2/12/2013 |
| Diethyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Dimethyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Di-n-butyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Di-n-octyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Fluoranthene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Fluorene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Hexachlorobenzene | ND | 5.0 | 0.20 | | µg/L | 1 | 2/12/2013 |
| Hexachlorobutadiene | ND | 5.0 | 0.30 | | µg/L | 1 | 2/12/2013 |
| Hexachlorocyclopentadiene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Hexachloroethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Indeno(1,2,3-cd)pyrene | ND | 2.0 | 2.0 | | µg/L | 1 | 2/12/2013 |
| Isophorone | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Naphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Nitrobenzene | ND | 3.0 | 3.0 | | µg/L | 1 | 2/12/2013 |
| N-Nitrosodi-n-propylamine | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| N-Nitrosodiphenylamine | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Pentachlorophenol | ND | 20 | 2.0 | | µg/L | 1 | 2/12/2013 |
| Phenanthrene | ND | 2.0 | 2.0 | | µg/L | 1 | 2/12/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *14-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-8W |
| **Work Order:** | 1302260 | **Collection Date:** | 2/7/2013 8:45:00 AM |
| **Project:** | Rock-Tenn 2/7/13 | | |
| **Lab ID:** | 1302260-01 | **Matrix:** | WATER |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Phenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Pyrene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| *Surr: 2,4,6-Tribromophenol* | *60.5* | *32-115* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 2-Fluorobiphenyl* | *50.5* | *32-100* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 2-Fluorophenol* | *32.4* | *22-59* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 4-Terphenyl-d14* | *84.7* | *23-112* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: Nitrobenzene-d5* | *55.6* | *31-93* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: Phenol-d6* | *18.7* | *13-36* | | | *%REC* | 1 | 2/12/2013 |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260** | | | | Analyst: **AK** |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1,1-Trichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1,2-Trichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1-Dichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1-Dichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2,3-Trichloropropane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2,4-Trichlorobenzene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | 0.20 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dibromoethane | ND | 1.0 | 0.050 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dichlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dichloropropane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,3-Dichlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,4-Dichlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 2-Butanone | ND | 25 | 25 | | µg/L | 1 | 2/9/2013 |
| 2-Hexanone | ND | 50 | 50 | | µg/L | 1 | 2/9/2013 |
| 2-Methylnaphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| 4-Methyl-2-pentanone | ND | 50 | 50 | | µg/L | 1 | 2/9/2013 |
| Acetone | ND | 50 | 50 | | µg/L | 1 | 2/9/2013 |
| Acrylonitrile | ND | 2.0 | 2.0 | | µg/L | 1 | 2/9/2013 |
| Benzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Bromochloromethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Bromodichloromethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Bromomethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Carbon disulfide | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Carbon tetrachloride | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Chlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Chloroethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *14-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-8W |
| **Work Order:** | 1302260 | **Collection Date:** | 2/7/2013 8:45:00 AM |
| **Project:** | Rock-Tenn 2/7/13 | | |
| **Lab ID:** | 1302260-01 | **Matrix:** | WATER |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Chloroform | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Chloromethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| cis-1,2-Dichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| cis-1,3-Dichloropropene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Dibromochloromethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Dibromomethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Dichlorodifluoromethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Diethyl ether | ND | 10 | 10 | | µg/L | 1 | 2/9/2013 |
| Ethylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Hexachloroethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Isopropylbenzene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| m,p-Xylene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Methyl iodide | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Methyl tert-butyl ether | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Naphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| n-Propylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| o-Xylene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Styrene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Tetrachloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Toluene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| trans-1,2-Dichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| trans-1,3-Dichloropropene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| trans-1,4-Dichloro-2-butene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Trichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Trichlorofluoromethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Vinyl acetate | ND | 100 | 100 | | µg/L | 1 | 2/9/2013 |
| Vinyl chloride | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Xylenes, Total | ND | 3.0 | 3.0 | | µg/L | 1 | 2/9/2013 |
| *Surr: 1,2-Dichloroethane-d4* | *88.3* | *70-120* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: 4-Bromofluorobenzene* | *103* | *75-120* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: Dibromofluoromethane* | *90.4* | *85-115* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: Toluene-d8* | *91.7* | *85-120* | | | *%REC* | 1 | 2/9/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *14-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-9W |
| **Work Order:** | 1302260 | **Collection Date:** | 2/7/2013 11:55:00 AM |
| **Project:** | Rock-Tenn 2/7/13 | | |
| **Lab ID:** | 1302260-02 | **Matrix:** | WATER |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **MERCURY BY CVAA** | | | **SW7470** | | Prep Date: **2/11/2013** | | Analyst: **LR** |
| Mercury | ND | 0.00020 | 0.00020 | | mg/L | 1 | 2/11/2013 |
| **METALS BY ICP-MS** | | | **SW6020A** | | Prep Date: **2/11/2013** | | Analyst: **RH** |
| **Arsenic** | **0.0091** | **0.0050** | **0.0050** | | **mg/L** | 1 | 2/12/2013 |
| **Barium** | **0.99** | **0.10** | **0.10** | | **mg/L** | 1 | 2/12/2013 |
| **Boron** | **0.88** | **0.30** | **0.30** | | **mg/L** | 1 | 2/12/2013 |
| Cadmium | ND | 0.0010 | 0.0010 | | mg/L | 1 | 2/12/2013 |
| Chromium | ND | 0.010 | 0.010 | | mg/L | 1 | 2/12/2013 |
| Copper | ND | 0.0040 | 0.0040 | | mg/L | 1 | 2/12/2013 |
| **Iron** | **12** | **0.20** | **0.20** | | **mg/L** | 1 | 2/12/2013 |
| Lead | ND | 0.0030 | 0.0030 | | mg/L | 1 | 2/12/2013 |
| **Magnesium** | **29** | **1.0** | **1.0** | | **mg/L** | 1 | 2/12/2013 |
| Selenium | ND | 0.0050 | 0.0050 | | mg/L | 1 | 2/12/2013 |
| Silver | ND | 0.00020 | 0.00020 | | mg/L | 1 | 2/12/2013 |
| Thallium | ND | 0.0020 | 0.0020 | | mg/L | 1 | 2/12/2013 |
| Zinc | ND | 0.050 | 0.050 | | mg/L | 1 | 2/12/2013 |
| **SEMI-VOLATILE ORGANIC COMPOUNDS** | | | **SW8270** | | Prep Date: **2/11/2013** | | Analyst: **HL** |
| 1,1`-Biphenyl | ND | 5.0 | 0 | | µg/L | 1 | 2/12/2013 |
| 2,4,5-Trichlorophenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2,4,6-Trichlorophenol | ND | 4.0 | 4.0 | | µg/L | 1 | 2/12/2013 |
| 2,4-Dichlorophenol | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 2,4-Dimethylphenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2,4-Dinitrophenol | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| 2,4-Dinitrotoluene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2,6-Dinitrotoluene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2-Chloronaphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2-Chlorophenol | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 2-Methylnaphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2-Methylphenol | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 2-Nitroaniline | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| 2-Nitrophenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 3,3´-Dichlorobenzidine | ND | 5.0 | 0.39 | | µg/L | 1 | 2/12/2013 |
| 3-Nitroaniline | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| 4,6-Dinitro-2-methylphenol | ND | 20 | 20 | | µg/L | 1 | 2/12/2013 |
| 4-Bromophenyl phenyl ether | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 4-Chloro-3-methylphenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 4-Chloroaniline | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 4-Chlorophenyl phenyl ether | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 4-Methylphenol | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *14-Feb-13*

**Client:** ECT, Inc
**Work Order:** 1302260
**Project:** Rock-Tenn 2/7/13
**Lab ID:** 1302260-02

**Client Sample ID:** RT-GB-9W
**Collection Date:** 2/7/2013 11:55:00 AM
**Matrix:** WATER

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| 4-Nitroaniline | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| 4-Nitrophenol | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| Acenaphthene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Acenaphthylene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Acetophenone | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| Anthracene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Atrazine | ND | 3.0 | 3.0 | | µg/L | 1 | 2/12/2013 |
| Benzaldehyde | ND | 1.0 | 0 | | µg/L | 1 | 2/12/2013 |
| Benzo(a)anthracene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Benzo(a)pyrene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Benzo(b)fluoranthene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Benzo(g,h,i)perylene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Benzo(k)fluoranthene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Bis(2-chloroethoxy)methane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Bis(2-chloroethyl)ether | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Bis(2-chloroisopropyl)ether | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Bis(2-ethylhexyl)phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Butyl benzyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Caprolactam | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| Carbazole | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| Chrysene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Dibenzo(a,h)anthracene | ND | 2.0 | 2.0 | | µg/L | 1 | 2/12/2013 |
| Dibenzofuran | ND | 4.0 | 4.0 | | µg/L | 1 | 2/12/2013 |
| Diethyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Dimethyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Di-n-butyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Di-n-octyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Fluoranthene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Fluorene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Hexachlorobenzene | ND | 5.0 | 0.20 | | µg/L | 1 | 2/12/2013 |
| Hexachlorobutadiene | ND | 5.0 | 0.30 | | µg/L | 1 | 2/12/2013 |
| Hexachlorocyclopentadiene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Hexachloroethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Indeno(1,2,3-cd)pyrene | ND | 2.0 | 2.0 | | µg/L | 1 | 2/12/2013 |
| Isophorone | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Naphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Nitrobenzene | ND | 3.0 | 3.0 | | µg/L | 1 | 2/12/2013 |
| N-Nitrosodi-n-propylamine | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| N-Nitrosodiphenylamine | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Pentachlorophenol | ND | 20 | 2.0 | | µg/L | 1 | 2/12/2013 |
| Phenanthrene | ND | 2.0 | 2.0 | | µg/L | 1 | 2/12/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *14-Feb-13*

**Client:** ECT, Inc
**Work Order:** 1302260
**Project:** Rock-Tenn 2/7/13
**Lab ID:** 1302260-02

**Client Sample ID:** RT-GB-9W
**Collection Date:** 2/7/2013 11:55:00 AM
**Matrix:** WATER

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Phenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Pyrene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| *Surr: 2,4,6-Tribromophenol* | *71.2* | *32-115* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 2-Fluorobiphenyl* | *51.0* | *32-100* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 2-Fluorophenol* | *28.3* | *22-59* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 4-Terphenyl-d14* | *74.9* | *23-112* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: Nitrobenzene-d5* | *53.5* | *31-93* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: Phenol-d6* | *17.4* | *13-36* | | | *%REC* | 1 | 2/12/2013 |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260** | | | | Analyst: **BG** |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1,1-Trichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1,2-Trichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1-Dichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1-Dichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2,3-Trichloropropane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2,4-Trichlorobenzene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | 0.20 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dibromoethane | ND | 1.0 | 0.050 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dichlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dichloropropane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,3-Dichlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,4-Dichlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 2-Butanone | ND | 25 | 25 | | µg/L | 1 | 2/9/2013 |
| 2-Hexanone | ND | 50 | 50 | | µg/L | 1 | 2/9/2013 |
| 2-Methylnaphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| 4-Methyl-2-pentanone | ND | 50 | 50 | | µg/L | 1 | 2/9/2013 |
| Acetone | ND | 50 | 50 | | µg/L | 1 | 2/9/2013 |
| Acrylonitrile | ND | 2.0 | 2.0 | | µg/L | 1 | 2/9/2013 |
| Benzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Bromochloromethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Bromodichloromethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Bromomethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Carbon disulfide | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Carbon tetrachloride | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Chlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Chloroethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *14-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-9W |
| **Work Order:** | 1302260 | **Collection Date:** | 2/7/2013 11:55:00 AM |
| **Project:** | Rock-Tenn 2/7/13 | | |
| **Lab ID:** | 1302260-02 | **Matrix:** | WATER |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Chloroform | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Chloromethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| cis-1,2-Dichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| cis-1,3-Dichloropropene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Dibromochloromethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Dibromomethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Dichlorodifluoromethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Diethyl ether | ND | 10 | 10 | | µg/L | 1 | 2/9/2013 |
| Ethylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Hexachloroethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Isopropylbenzene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| m,p-Xylene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Methyl iodide | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Methyl tert-butyl ether | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Naphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| n-Propylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| o-Xylene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Styrene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Tetrachloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Toluene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| trans-1,2-Dichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| trans-1,3-Dichloropropene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| trans-1,4-Dichloro-2-butene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Trichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Trichlorofluoromethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Vinyl acetate | ND | 100 | 100 | | µg/L | 1 | 2/9/2013 |
| Vinyl chloride | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Xylenes, Total | ND | 3.0 | 3.0 | | µg/L | 1 | 2/9/2013 |
| *Surr: 1,2-Dichloroethane-d4* | *90.2* | *70-120* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: 4-Bromofluorobenzene* | *107* | *75-120* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: Dibromofluoromethane* | *94.5* | *85-115* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: Toluene-d8* | *93.8* | *85-120* | | | *%REC* | 1 | 2/9/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *14-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-9W Dup |
| **Work Order:** | 1302260 | **Collection Date:** | 2/7/2013 11:55:00 AM |
| **Project:** | Rock-Tenn 2/7/13 | | |
| **Lab ID:** | 1302260-03 | **Matrix:** | WATER |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **MERCURY BY CVAA** | | | **SW7470** | | Prep Date: **2/11/2013** | | Analyst: **LR** |
| Mercury | ND | 0.00020 | 0.00020 | | mg/L | 1 | 2/11/2013 |
| **METALS BY ICP-MS** | | | **SW6020A** | | Prep Date: **2/11/2013** | | Analyst: **RH** |
| **Arsenic** | **0.0094** | **0.0050** | **0.0050** | | **mg/L** | 1 | 2/12/2013 |
| **Barium** | **0.98** | **0.10** | **0.10** | | **mg/L** | 1 | 2/12/2013 |
| **Boron** | **0.90** | **0.30** | **0.30** | | **mg/L** | 1 | 2/12/2013 |
| Cadmium | ND | 0.0010 | 0.0010 | | mg/L | 1 | 2/12/2013 |
| Chromium | ND | 0.010 | 0.010 | | mg/L | 1 | 2/12/2013 |
| Copper | ND | 0.0040 | 0.0040 | | mg/L | 1 | 2/12/2013 |
| **Iron** | **12** | **0.20** | **0.20** | | **mg/L** | 1 | 2/12/2013 |
| Lead | ND | 0.0030 | 0.0030 | | mg/L | 1 | 2/12/2013 |
| **Magnesium** | **29** | **1.0** | **1.0** | | **mg/L** | 1 | 2/12/2013 |
| Selenium | ND | 0.0050 | 0.0050 | | mg/L | 1 | 2/12/2013 |
| Silver | ND | 0.00020 | 0.00020 | | mg/L | 1 | 2/12/2013 |
| Thallium | ND | 0.0020 | 0.0020 | | mg/L | 1 | 2/12/2013 |
| Zinc | ND | 0.050 | 0.050 | | mg/L | 1 | 2/12/2013 |
| **SEMI-VOLATILE ORGANIC COMPOUNDS** | | | **SW8270** | | Prep Date: **2/11/2013** | | Analyst: **HL** |
| 1,1`-Biphenyl | ND | 5.0 | 0 | | µg/L | 1 | 2/12/2013 |
| 2,4,5-Trichlorophenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2,4,6-Trichlorophenol | ND | 4.0 | 4.0 | | µg/L | 1 | 2/12/2013 |
| 2,4-Dichlorophenol | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 2,4-Dimethylphenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2,4-Dinitrophenol | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| 2,4-Dinitrotoluene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2,6-Dinitrotoluene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2-Chloronaphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2-Chlorophenol | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 2-Methylnaphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2-Methylphenol | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 2-Nitroaniline | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| 2-Nitrophenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 3,3´-Dichlorobenzidine | ND | 5.0 | 0.39 | | µg/L | 1 | 2/12/2013 |
| 3-Nitroaniline | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| 4,6-Dinitro-2-methylphenol | ND | 20 | 20 | | µg/L | 1 | 2/12/2013 |
| 4-Bromophenyl phenyl ether | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 4-Chloro-3-methylphenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 4-Chloroaniline | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 4-Chlorophenyl phenyl ether | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 4-Methylphenol | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *14-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-9W Dup |
| **Work Order:** | 1302260 | **Collection Date:** | 2/7/2013 11:55:00 AM |
| **Project:** | Rock-Tenn 2/7/13 | | |
| **Lab ID:** | 1302260-03 | **Matrix:** | WATER |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| 4-Nitroaniline | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| 4-Nitrophenol | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| Acenaphthene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Acenaphthylene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Acetophenone | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| Anthracene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Atrazine | ND | 3.0 | 3.0 | | µg/L | 1 | 2/12/2013 |
| Benzaldehyde | ND | 1.0 | 0 | | µg/L | 1 | 2/12/2013 |
| Benzo(a)anthracene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Benzo(a)pyrene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Benzo(b)fluoranthene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Benzo(g,h,i)perylene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Benzo(k)fluoranthene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Bis(2-chloroethoxy)methane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Bis(2-chloroethyl)ether | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Bis(2-chloroisopropyl)ether | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Bis(2-ethylhexyl)phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Butyl benzyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Caprolactam | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| Carbazole | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| Chrysene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Dibenzo(a,h)anthracene | ND | 2.0 | 2.0 | | µg/L | 1 | 2/12/2013 |
| Dibenzofuran | ND | 4.0 | 4.0 | | µg/L | 1 | 2/12/2013 |
| Diethyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Dimethyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Di-n-butyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Di-n-octyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Fluoranthene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Fluorene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Hexachlorobenzene | ND | 5.0 | 0.20 | | µg/L | 1 | 2/12/2013 |
| Hexachlorobutadiene | ND | 5.0 | 0.30 | | µg/L | 1 | 2/12/2013 |
| Hexachlorocyclopentadiene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Hexachloroethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Indeno(1,2,3-cd)pyrene | ND | 2.0 | 2.0 | | µg/L | 1 | 2/12/2013 |
| Isophorone | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Naphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Nitrobenzene | ND | 3.0 | 3.0 | | µg/L | 1 | 2/12/2013 |
| N-Nitrosodi-n-propylamine | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| N-Nitrosodiphenylamine | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Pentachlorophenol | ND | 20 | 2.0 | | µg/L | 1 | 2/12/2013 |
| Phenanthrene | ND | 2.0 | 2.0 | | µg/L | 1 | 2/12/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *14-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-9W Dup |
| **Work Order:** | 1302260 | **Collection Date:** | 2/7/2013 11:55:00 AM |
| **Project:** | Rock-Tenn 2/7/13 | | |
| **Lab ID:** | 1302260-03 | **Matrix:** | WATER |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Phenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Pyrene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| *Surr: 2,4,6-Tribromophenol* | *63.5* | *32-115* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 2-Fluorobiphenyl* | *48.3* | *32-100* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 2-Fluorophenol* | *30.7* | *22-59* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 4-Terphenyl-d14* | *97.1* | *23-112* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: Nitrobenzene-d5* | *53.0* | *31-93* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: Phenol-d6* | *17.8* | *13-36* | | | *%REC* | 1 | 2/12/2013 |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260** | | | | Analyst: **BG** |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1,1-Trichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1,2-Trichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1-Dichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1-Dichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2,3-Trichloropropane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2,4-Trichlorobenzene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | 0.20 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dibromoethane | ND | 1.0 | 0.050 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dichlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dichloropropane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,3-Dichlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,4-Dichlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 2-Butanone | ND | 25 | 25 | | µg/L | 1 | 2/9/2013 |
| 2-Hexanone | ND | 50 | 50 | | µg/L | 1 | 2/9/2013 |
| 2-Methylnaphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| 4-Methyl-2-pentanone | ND | 50 | 50 | | µg/L | 1 | 2/9/2013 |
| Acetone | ND | 50 | 50 | | µg/L | 1 | 2/9/2013 |
| Acrylonitrile | ND | 2.0 | 2.0 | | µg/L | 1 | 2/9/2013 |
| Benzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Bromochloromethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Bromodichloromethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Bromomethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Carbon disulfide | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Carbon tetrachloride | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Chlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Chloroethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *14-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-9W Dup |
| **Work Order:** | 1302260 | **Collection Date:** | 2/7/2013 11:55:00 AM |
| **Project:** | Rock-Tenn 2/7/13 | | |
| **Lab ID:** | 1302260-03 | **Matrix:** | WATER |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Chloroform | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Chloromethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| cis-1,2-Dichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| cis-1,3-Dichloropropene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Dibromochloromethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Dibromomethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Dichlorodifluoromethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Diethyl ether | ND | 10 | 10 | | µg/L | 1 | 2/9/2013 |
| Ethylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Hexachloroethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Isopropylbenzene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| m,p-Xylene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Methyl iodide | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Methyl tert-butyl ether | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Naphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| n-Propylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| o-Xylene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Styrene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Tetrachloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Toluene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| trans-1,2-Dichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| trans-1,3-Dichloropropene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| trans-1,4-Dichloro-2-butene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Trichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Trichlorofluoromethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Vinyl acetate | ND | 100 | 100 | | µg/L | 1 | 2/9/2013 |
| Vinyl chloride | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Xylenes, Total | ND | 3.0 | 3.0 | | µg/L | 1 | 2/9/2013 |
| *Surr: 1,2-Dichloroethane-d4* | *99.8* | *70-120* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: 4-Bromofluorobenzene* | *106* | *75-120* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: Dibromofluoromethane* | *95.7* | *85-115* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: Toluene-d8* | *92.6* | *85-120* | | | *%REC* | 1 | 2/9/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *14-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | EB-1 |
| **Work Order:** | 1302260 | **Collection Date:** | 2/7/2013 2:00:00 PM |
| **Project:** | Rock-Tenn 2/7/13 | | |
| **Lab ID:** | 1302260-04 | **Matrix:** | WATER |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **MERCURY BY CVAA** | | | **SW7470** | | Prep Date: **2/11/2013** | | Analyst: **LR** |
| Mercury | ND | 0.00020 | 0.00020 | | mg/L | 1 | 2/11/2013 |
| **METALS BY ICP-MS** | | | **SW6020A** | | Prep Date: **2/11/2013** | | Analyst: **RH** |
| Arsenic | ND | 0.0050 | 0.0050 | | mg/L | 1 | 2/12/2013 |
| Barium | ND | 0.10 | 0.10 | | mg/L | 1 | 2/12/2013 |
| Boron | ND | 0.30 | 0.30 | | mg/L | 1 | 2/13/2013 |
| Cadmium | ND | 0.0010 | 0.0010 | | mg/L | 1 | 2/12/2013 |
| Chromium | ND | 0.010 | 0.010 | | mg/L | 1 | 2/12/2013 |
| Copper | ND | 0.0040 | 0.0040 | | mg/L | 1 | 2/12/2013 |
| Iron | ND | 0.20 | 0.20 | | mg/L | 1 | 2/12/2013 |
| Lead | ND | 0.0030 | 0.0030 | | mg/L | 1 | 2/12/2013 |
| Magnesium | ND | 1.0 | 1.0 | | mg/L | 1 | 2/12/2013 |
| Selenium | ND | 0.0050 | 0.0050 | | mg/L | 1 | 2/12/2013 |
| Silver | ND | 0.00020 | 0.00020 | | mg/L | 1 | 2/12/2013 |
| Thallium | ND | 0.0020 | 0.0020 | | mg/L | 1 | 2/12/2013 |
| Zinc | ND | 0.050 | 0.050 | | mg/L | 1 | 2/12/2013 |
| **SEMI-VOLATILE ORGANIC COMPOUNDS** | | | **SW8270** | | Prep Date: **2/11/2013** | | Analyst: **HL** |
| 1,1`-Biphenyl | ND | 5.0 | 0 | | µg/L | 1 | 2/12/2013 |
| 2,4,5-Trichlorophenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2,4,6-Trichlorophenol | ND | 4.0 | 4.0 | | µg/L | 1 | 2/12/2013 |
| 2,4-Dichlorophenol | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 2,4-Dimethylphenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2,4-Dinitrophenol | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| 2,4-Dinitrotoluene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2,6-Dinitrotoluene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2-Chloronaphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2-Chlorophenol | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 2-Methylnaphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2-Methylphenol | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 2-Nitroaniline | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| 2-Nitrophenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 3,3´-Dichlorobenzidine | ND | 5.0 | 0.39 | | µg/L | 1 | 2/12/2013 |
| 3-Nitroaniline | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| 4,6-Dinitro-2-methylphenol | ND | 20 | 20 | | µg/L | 1 | 2/12/2013 |
| 4-Bromophenyl phenyl ether | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 4-Chloro-3-methylphenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 4-Chloroaniline | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 4-Chlorophenyl phenyl ether | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 4-Methylphenol | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *14-Feb-13*

**Client:** ECT, Inc
**Work Order:** 1302260
**Project:** Rock-Tenn 2/7/13
**Lab ID:** 1302260-04

**Client Sample ID:** EB-1
**Collection Date:** 2/7/2013 2:00:00 PM
**Matrix:** WATER

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| 4-Nitroaniline | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| 4-Nitrophenol | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| Acenaphthene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Acenaphthylene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Acetophenone | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| Anthracene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Atrazine | ND | 3.0 | 3.0 | | µg/L | 1 | 2/12/2013 |
| Benzaldehyde | ND | 1.0 | 0 | | µg/L | 1 | 2/12/2013 |
| Benzo(a)anthracene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Benzo(a)pyrene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Benzo(b)fluoranthene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Benzo(g,h,i)perylene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Benzo(k)fluoranthene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Bis(2-chloroethoxy)methane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Bis(2-chloroethyl)ether | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Bis(2-chloroisopropyl)ether | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Bis(2-ethylhexyl)phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Butyl benzyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Caprolactam | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| Carbazole | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| Chrysene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Dibenzo(a,h)anthracene | ND | 2.0 | 2.0 | | µg/L | 1 | 2/12/2013 |
| Dibenzofuran | ND | 4.0 | 4.0 | | µg/L | 1 | 2/12/2013 |
| Diethyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Dimethyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Di-n-butyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Di-n-octyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Fluoranthene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Fluorene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Hexachlorobenzene | ND | 5.0 | 0.20 | | µg/L | 1 | 2/12/2013 |
| Hexachlorobutadiene | ND | 5.0 | 0.30 | | µg/L | 1 | 2/12/2013 |
| Hexachlorocyclopentadiene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Hexachloroethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Indeno(1,2,3-cd)pyrene | ND | 2.0 | 2.0 | | µg/L | 1 | 2/12/2013 |
| Isophorone | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Naphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Nitrobenzene | ND | 3.0 | 3.0 | | µg/L | 1 | 2/12/2013 |
| N-Nitrosodi-n-propylamine | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| N-Nitrosodiphenylamine | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Pentachlorophenol | ND | 20 | 2.0 | | µg/L | 1 | 2/12/2013 |
| Phenanthrene | ND | 2.0 | 2.0 | | µg/L | 1 | 2/12/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *14-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | EB-1 |
| **Work Order:** | 1302260 | **Collection Date:** | 2/7/2013 2:00:00 PM |
| **Project:** | Rock-Tenn 2/7/13 | | |
| **Lab ID:** | 1302260-04 | **Matrix:** | WATER |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Phenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Pyrene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| *Surr: 2,4,6-Tribromophenol* | *75.9* | *32-115* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 2-Fluorobiphenyl* | *68.1* | *32-100* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 2-Fluorophenol* | *45.8* | *22-59* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 4-Terphenyl-d14* | *109* | *23-112* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: Nitrobenzene-d5* | *73.9* | *31-93* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: Phenol-d6* | *26.8* | *13-36* | | | *%REC* | 1 | 2/12/2013 |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260** | | | | Analyst: **AK** |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1,1-Trichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1,2-Trichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1-Dichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1-Dichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2,3-Trichloropropane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2,4-Trichlorobenzene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | 0.20 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dibromoethane | ND | 1.0 | 0.050 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dichlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dichloropropane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,3-Dichlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,4-Dichlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 2-Butanone | ND | 25 | 25 | | µg/L | 1 | 2/9/2013 |
| 2-Hexanone | ND | 50 | 50 | | µg/L | 1 | 2/9/2013 |
| 2-Methylnaphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| 4-Methyl-2-pentanone | ND | 50 | 50 | | µg/L | 1 | 2/9/2013 |
| Acetone | ND | 50 | 50 | | µg/L | 1 | 2/9/2013 |
| Acrylonitrile | ND | 2.0 | 2.0 | | µg/L | 1 | 2/9/2013 |
| Benzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Bromochloromethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Bromodichloromethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Bromomethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Carbon disulfide | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Carbon tetrachloride | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Chlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Chloroethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *14-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | EB-1 |
| **Work Order:** | 1302260 | **Collection Date:** | 2/7/2013 2:00:00 PM |
| **Project:** | Rock-Tenn 2/7/13 | | |
| **Lab ID:** | 1302260-04 | **Matrix:** | WATER |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Chloroform | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Chloromethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| cis-1,2-Dichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| cis-1,3-Dichloropropene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Dibromochloromethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Dibromomethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Dichlorodifluoromethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Diethyl ether | ND | 10 | 10 | | µg/L | 1 | 2/9/2013 |
| Ethylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Hexachloroethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Isopropylbenzene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| m,p-Xylene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Methyl iodide | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Methyl tert-butyl ether | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Naphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| n-Propylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| o-Xylene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Styrene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Tetrachloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Toluene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| trans-1,2-Dichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| trans-1,3-Dichloropropene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| trans-1,4-Dichloro-2-butene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Trichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Trichlorofluoromethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Vinyl acetate | ND | 100 | 100 | | µg/L | 1 | 2/9/2013 |
| Vinyl chloride | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Xylenes, Total | ND | 3.0 | 3.0 | | µg/L | 1 | 2/9/2013 |
| *Surr: 1,2-Dichloroethane-d4* | *90.8* | *70-120* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: 4-Bromofluorobenzene* | *105* | *75-120* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: Dibromofluoromethane* | *93.0* | *85-115* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: Toluene-d8* | *94.4* | *85-120* | | | *%REC* | 1 | 2/9/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *14-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-7W |
| **Work Order:** | 1302260 | **Collection Date:** | 2/7/2013 2:16:00 PM |
| **Project:** | Rock-Tenn 2/7/13 | | |
| **Lab ID:** | 1302260-05 | **Matrix:** | WATER |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **SEMI-VOLATILE ORGANIC COMPOUNDS** | | | **SW8270** | | Prep Date: **2/11/2013** | | Analyst: **HL** |
| 1,1`-Biphenyl | ND | 5.0 | 0 | | µg/L | 1 | 2/12/2013 |
| 2,4,5-Trichlorophenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2,4,6-Trichlorophenol | ND | 4.0 | 4.0 | | µg/L | 1 | 2/12/2013 |
| 2,4-Dichlorophenol | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 2,4-Dimethylphenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2,4-Dinitrophenol | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| 2,4-Dinitrotoluene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2,6-Dinitrotoluene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2-Chloronaphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2-Chlorophenol | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 2-Methylnaphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2-Methylphenol | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 2-Nitroaniline | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| 2-Nitrophenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 3,3´-Dichlorobenzidine | ND | 5.0 | 0.39 | | µg/L | 1 | 2/12/2013 |
| 3-Nitroaniline | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| 4,6-Dinitro-2-methylphenol | ND | 20 | 20 | | µg/L | 1 | 2/12/2013 |
| 4-Bromophenyl phenyl ether | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 4-Chloro-3-methylphenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 4-Chloroaniline | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 4-Chlorophenyl phenyl ether | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 4-Methylphenol | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 4-Nitroaniline | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| 4-Nitrophenol | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| Acenaphthene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Acenaphthylene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Acetophenone | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| Anthracene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Atrazine | ND | 3.0 | 3.0 | | µg/L | 1 | 2/12/2013 |
| Benzaldehyde | ND | 1.0 | 0 | | µg/L | 1 | 2/12/2013 |
| Benzo(a)anthracene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Benzo(a)pyrene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Benzo(b)fluoranthene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Benzo(g,h,i)perylene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Benzo(k)fluoranthene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Bis(2-chloroethoxy)methane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Bis(2-chloroethyl)ether | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Bis(2-chloroisopropyl)ether | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Bis(2-ethylhexyl)phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *14-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-7W |
| **Work Order:** | 1302260 | **Collection Date:** | 2/7/2013 2:16:00 PM |
| **Project:** | Rock-Tenn 2/7/13 | | |
| **Lab ID:** | 1302260-05 | **Matrix:** | WATER |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Butyl benzyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Caprolactam | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| Carbazole | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| Chrysene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Dibenzo(a,h)anthracene | ND | 2.0 | 2.0 | | µg/L | 1 | 2/12/2013 |
| Dibenzofuran | ND | 4.0 | 4.0 | | µg/L | 1 | 2/12/2013 |
| Diethyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Dimethyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Di-n-butyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Di-n-octyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Fluoranthene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Fluorene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Hexachlorobenzene | ND | 5.0 | 0.20 | | µg/L | 1 | 2/12/2013 |
| Hexachlorobutadiene | ND | 5.0 | 0.30 | | µg/L | 1 | 2/12/2013 |
| Hexachlorocyclopentadiene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Hexachloroethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Indeno(1,2,3-cd)pyrene | ND | 2.0 | 2.0 | | µg/L | 1 | 2/12/2013 |
| Isophorone | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Naphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Nitrobenzene | ND | 3.0 | 3.0 | | µg/L | 1 | 2/12/2013 |
| N-Nitrosodi-n-propylamine | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| N-Nitrosodiphenylamine | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Pentachlorophenol | ND | 20 | 2.0 | | µg/L | 1 | 2/12/2013 |
| Phenanthrene | ND | 2.0 | 2.0 | | µg/L | 1 | 2/12/2013 |
| Phenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Pyrene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| *Surr: 2,4,6-Tribromophenol* | *65.4* | *32-115* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 2-Fluorobiphenyl* | *56.8* | *32-100* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 2-Fluorophenol* | *36.5* | *22-59* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 4-Terphenyl-d14* | *97.8* | *23-112* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: Nitrobenzene-d5* | *61.6* | *31-93* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: Phenol-d6* | *20.6* | *13-36* | | | *%REC* | 1 | 2/12/2013 |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260** | | | | Analyst: **BG** |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1,1-Trichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1,2-Trichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1-Dichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1-Dichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2,3-Trichloropropane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *14-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-7W |
| **Work Order:** | 1302260 | **Collection Date:** | 2/7/2013 2:16:00 PM |
| **Project:** | Rock-Tenn 2/7/13 | | |
| **Lab ID:** | 1302260-05 | **Matrix:** | WATER |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | 0.20 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dibromoethane | ND | 1.0 | 0.050 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dichlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dichloropropane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,3-Dichlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,4-Dichlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 2-Butanone | ND | 25 | 25 | | µg/L | 1 | 2/9/2013 |
| 2-Hexanone | ND | 50 | 50 | | µg/L | 1 | 2/9/2013 |
| 2-Methylnaphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| 4-Methyl-2-pentanone | ND | 50 | 50 | | µg/L | 1 | 2/9/2013 |
| Acetone | ND | 50 | 50 | | µg/L | 1 | 2/9/2013 |
| Acrylonitrile | ND | 2.0 | 2.0 | | µg/L | 1 | 2/9/2013 |
| Benzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Bromochloromethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Bromodichloromethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Bromomethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Carbon disulfide | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Carbon tetrachloride | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Chlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Chloroethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Chloroform | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Chloromethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| cis-1,2-Dichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| cis-1,3-Dichloropropene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Dibromochloromethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Dibromomethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Dichlorodifluoromethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Diethyl ether | ND | 10 | 10 | | µg/L | 1 | 2/9/2013 |
| Ethylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Hexachloroethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Isopropylbenzene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| m,p-Xylene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Methyl iodide | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Methyl tert-butyl ether | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Naphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| n-Propylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| o-Xylene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *14-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-7W |
| **Work Order:** | 1302260 | **Collection Date:** | 2/7/2013 2:16:00 PM |
| **Project:** | Rock-Tenn 2/7/13 | | |
| **Lab ID:** | 1302260-05 | **Matrix:** | WATER |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Styrene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Tetrachloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Toluene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| trans-1,2-Dichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| trans-1,3-Dichloropropene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| trans-1,4-Dichloro-2-butene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Trichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Trichlorofluoromethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Vinyl acetate | ND | 100 | 100 | | µg/L | 1 | 2/9/2013 |
| Vinyl chloride | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Xylenes, Total | ND | 3.0 | 3.0 | | µg/L | 1 | 2/9/2013 |
| *Surr: 1,2-Dichloroethane-d4* | *101* | *70-120* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: 4-Bromofluorobenzene* | *104* | *75-120* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: Dibromofluoromethane* | *97.4* | *85-115* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: Toluene-d8* | *93.1* | *85-120* | | | *%REC* | 1 | 2/9/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *14-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-6W |
| **Work Order:** | 1302260 | **Collection Date:** | 2/7/2013 3:30:00 PM |
| **Project:** | Rock-Tenn 2/7/13 | | |
| **Lab ID:** | 1302260-06 | **Matrix:** | WATER |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **SEMI-VOLATILE ORGANIC COMPOUNDS** | | | **SW8270** | | Prep Date: **2/11/2013** | | Analyst: **HL** |
| 1,1`-Biphenyl | ND | 5.0 | 0 | | µg/L | 1 | 2/12/2013 |
| 2,4,5-Trichlorophenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2,4,6-Trichlorophenol | ND | 4.0 | 4.0 | | µg/L | 1 | 2/12/2013 |
| 2,4-Dichlorophenol | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 2,4-Dimethylphenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2,4-Dinitrophenol | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| 2,4-Dinitrotoluene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2,6-Dinitrotoluene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2-Chloronaphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2-Chlorophenol | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 2-Methylnaphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 2-Methylphenol | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 2-Nitroaniline | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| 2-Nitrophenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 3,3´-Dichlorobenzidine | ND | 5.0 | 0.39 | | µg/L | 1 | 2/12/2013 |
| 3-Nitroaniline | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| 4,6-Dinitro-2-methylphenol | ND | 20 | 20 | | µg/L | 1 | 2/12/2013 |
| 4-Bromophenyl phenyl ether | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 4-Chloro-3-methylphenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 4-Chloroaniline | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 4-Chlorophenyl phenyl ether | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| 4-Methylphenol | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| 4-Nitroaniline | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| 4-Nitrophenol | ND | 25 | 25 | | µg/L | 1 | 2/12/2013 |
| Acenaphthene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Acenaphthylene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Acetophenone | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| Anthracene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Atrazine | ND | 3.0 | 3.0 | | µg/L | 1 | 2/12/2013 |
| Benzaldehyde | ND | 1.0 | 0 | | µg/L | 1 | 2/12/2013 |
| Benzo(a)anthracene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Benzo(a)pyrene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Benzo(b)fluoranthene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Benzo(g,h,i)perylene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Benzo(k)fluoranthene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Bis(2-chloroethoxy)methane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Bis(2-chloroethyl)ether | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Bis(2-chloroisopropyl)ether | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Bis(2-ethylhexyl)phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *14-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-6W |
| **Work Order:** | 1302260 | **Collection Date:** | 2/7/2013 3:30:00 PM |
| **Project:** | Rock-Tenn 2/7/13 | | |
| **Lab ID:** | 1302260-06 | **Matrix:** | WATER |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Butyl benzyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Caprolactam | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| Carbazole | ND | 10 | 10 | | µg/L | 1 | 2/12/2013 |
| Chrysene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Dibenzo(a,h)anthracene | ND | 2.0 | 2.0 | | µg/L | 1 | 2/12/2013 |
| Dibenzofuran | ND | 4.0 | 4.0 | | µg/L | 1 | 2/12/2013 |
| Diethyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Dimethyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Di-n-butyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Di-n-octyl phthalate | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Fluoranthene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/12/2013 |
| Fluorene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Hexachlorobenzene | ND | 5.0 | 0.20 | | µg/L | 1 | 2/12/2013 |
| Hexachlorobutadiene | ND | 5.0 | 0.30 | | µg/L | 1 | 2/12/2013 |
| Hexachlorocyclopentadiene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Hexachloroethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Indeno(1,2,3-cd)pyrene | ND | 2.0 | 2.0 | | µg/L | 1 | 2/12/2013 |
| Isophorone | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Naphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Nitrobenzene | ND | 3.0 | 3.0 | | µg/L | 1 | 2/12/2013 |
| N-Nitrosodi-n-propylamine | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| N-Nitrosodiphenylamine | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Pentachlorophenol | ND | 20 | 2.0 | | µg/L | 1 | 2/12/2013 |
| Phenanthrene | ND | 2.0 | 2.0 | | µg/L | 1 | 2/12/2013 |
| Phenol | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| Pyrene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/12/2013 |
| *Surr: 2,4,6-Tribromophenol* | *57.3* | *32-115* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 2-Fluorobiphenyl* | *51.5* | *32-100* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 2-Fluorophenol* | *31.9* | *22-59* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: 4-Terphenyl-d14* | *92.6* | *23-112* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: Nitrobenzene-d5* | *56.6* | *31-93* | | | *%REC* | 1 | 2/12/2013 |
| *Surr: Phenol-d6* | *17.9* | *13-36* | | | *%REC* | 1 | 2/12/2013 |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260** | | | | Analyst: **BG** |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1,1-Trichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1,2-Trichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1-Dichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1-Dichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2,3-Trichloropropane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *14-Feb-13*

**Client:** ECT, Inc
**Work Order:** 1302260
**Project:** Rock-Tenn 2/7/13
**Lab ID:** 1302260-06

**Client Sample ID:** RT-GB-6W
**Collection Date:** 2/7/2013 3:30:00 PM
**Matrix:** WATER

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | 0.20 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dibromoethane | ND | 1.0 | 0.050 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dichlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dichloropropane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,3-Dichlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,4-Dichlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 2-Butanone | ND | 25 | 25 | | µg/L | 1 | 2/9/2013 |
| 2-Hexanone | ND | 50 | 50 | | µg/L | 1 | 2/9/2013 |
| 2-Methylnaphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| 4-Methyl-2-pentanone | ND | 50 | 50 | | µg/L | 1 | 2/9/2013 |
| Acetone | ND | 50 | 50 | | µg/L | 1 | 2/9/2013 |
| Acrylonitrile | ND | 2.0 | 2.0 | | µg/L | 1 | 2/9/2013 |
| Benzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Bromochloromethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Bromodichloromethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Bromomethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Carbon disulfide | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Carbon tetrachloride | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Chlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Chloroethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Chloroform | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Chloromethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| cis-1,2-Dichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| cis-1,3-Dichloropropene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Dibromochloromethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Dibromomethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Dichlorodifluoromethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Diethyl ether | ND | 10 | 10 | | µg/L | 1 | 2/9/2013 |
| Ethylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Hexachloroethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Isopropylbenzene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| m,p-Xylene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Methyl iodide | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Methyl tert-butyl ether | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Naphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| n-Propylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| o-Xylene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *14-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | RT-GB-6W |
| **Work Order:** | 1302260 | **Collection Date:** | 2/7/2013 3:30:00 PM |
| **Project:** | Rock-Tenn 2/7/13 | | |
| **Lab ID:** | 1302260-06 | **Matrix:** | WATER |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Styrene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Tetrachloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Toluene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| trans-1,2-Dichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| trans-1,3-Dichloropropene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| trans-1,4-Dichloro-2-butene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Trichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Trichlorofluoromethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Vinyl acetate | ND | 100 | 100 | | µg/L | 1 | 2/9/2013 |
| Vinyl chloride | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Xylenes, Total | ND | 3.0 | 3.0 | | µg/L | 1 | 2/9/2013 |
| *Surr: 1,2-Dichloroethane-d4* | *98.8* | *70-120* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: 4-Bromofluorobenzene* | *104* | *75-120* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: Dibromofluoromethane* | *97.4* | *85-115* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: Toluene-d8* | *93.4* | *85-120* | | | *%REC* | 1 | 2/9/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *14-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | Trip Blank |
| **Work Order:** | 1302260 | **Collection Date:** | 2/7/2013 |
| **Project:** | Rock-Tenn 2/7/13 | | |
| **Lab ID:** | 1302260-07 | **Matrix:** | WATER |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260** | | | | Analyst: **AK** |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1,1-Trichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1,2-Trichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1-Dichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,1-Dichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2,3-Trichloropropane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2,4-Trichlorobenzene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | 0.20 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dibromoethane | ND | 1.0 | 0.050 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dichlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dichloroethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,2-Dichloropropane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,3-Dichlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 1,4-Dichlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| 2-Butanone | ND | 25 | 25 | | µg/L | 1 | 2/9/2013 |
| 2-Hexanone | ND | 50 | 50 | | µg/L | 1 | 2/9/2013 |
| 2-Methylnaphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| 4-Methyl-2-pentanone | ND | 50 | 50 | | µg/L | 1 | 2/9/2013 |
| Acetone | ND | 50 | 50 | | µg/L | 1 | 2/9/2013 |
| Acrylonitrile | ND | 2.0 | 2.0 | | µg/L | 1 | 2/9/2013 |
| Benzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Bromochloromethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Bromodichloromethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Bromomethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Carbon disulfide | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Carbon tetrachloride | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Chlorobenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Chloroethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Chloroform | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Chloromethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| cis-1,2-Dichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| cis-1,3-Dichloropropene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Dibromochloromethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Dibromomethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Dichlorodifluoromethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Diethyl ether | ND | 10 | 10 | | µg/L | 1 | 2/9/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

**Date:** *14-Feb-13*

| | | | |
|---|---|---|---|
| **Client:** | ECT, Inc | **Client Sample ID:** | Trip Blank |
| **Work Order:** | 1302260 | **Collection Date:** | 2/7/2013 |
| **Project:** | Rock-Tenn 2/7/13 | | |
| **Lab ID:** | 1302260-07 | **Matrix:** | WATER |

| Analyses | Result | Report Limit | MDEQ OP Memo 2 TDL | Qual | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Ethylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Hexachloroethane | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Isopropylbenzene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| m,p-Xylene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Methyl iodide | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Methyl tert-butyl ether | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| Naphthalene | ND | 5.0 | 5.0 | | µg/L | 1 | 2/9/2013 |
| n-Propylbenzene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| o-Xylene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Styrene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Tetrachloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Toluene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| trans-1,2-Dichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| trans-1,3-Dichloropropene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| trans-1,4-Dichloro-2-butene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Trichloroethene | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Trichlorofluoromethane | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Vinyl acetate | ND | 100 | 100 | | µg/L | 1 | 2/9/2013 |
| Vinyl chloride | ND | 1.0 | 1.0 | | µg/L | 1 | 2/9/2013 |
| Xylenes, Total | ND | 3.0 | 3.0 | | µg/L | 1 | 2/9/2013 |
| *Surr: 1,2-Dichloroethane-d4* | *91.4* | *70-120* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: 4-Bromofluorobenzene* | *105* | *75-120* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: Dibromofluoromethane* | *93.8* | *85-115* | | | *%REC* | 1 | 2/9/2013 |
| *Surr: Toluene-d8* | *93.2* | *85-120* | | | *%REC* | 1 | 2/9/2013 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# QC BATCH REPORT

Batch ID: **46342** Instrument ID **HG1** Method: **SW7470**

**MBLK** Sample ID: **MBLK-46342-46342** Units: **mg/L** Analysis Date: **2/11/2013 04:47 PM**

Client ID: Run ID: **HG1_130211A** SeqNo: **2213099** Prep Date: **2/11/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.000022 | 0.00020 | | | | | | | | J |

**LCS** Sample ID: **LCS-46342-46342** Units: **mg/L** Analysis Date: **2/11/2013 04:55 PM**

Client ID: Run ID: **HG1_130211A** SeqNo: **2213100** Prep Date: **2/11/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.001936 | 0.00020 | 0.002 | 0 | 96.8 | 80-120 | 0 | | | |

**MS** Sample ID: **1302260-01CMS** Units: **mg/L** Analysis Date: **2/11/2013 05:08 PM**

Client ID: **RT-GB-8W** Run ID: **HG1_130211A** SeqNo: **2213106** Prep Date: **2/11/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.001865 | 0.00020 | 0.002 | 0.000018 | 92.4 | 75-125 | 0 | | | |

**MSD** Sample ID: **1302260-01CMSD** Units: **mg/L** Analysis Date: **2/11/2013 05:10 PM**

Client ID: **RT-GB-8W** Run ID: **HG1_130211A** SeqNo: **2213107** Prep Date: **2/11/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.00192 | 0.00020 | 0.002 | 0.000018 | 95.1 | 75-125 | 0.001865 | 2.91 | 20 | |

**The following samples were analyzed in this batch:**

1302260-01C 1302260-02C 1302260-03C
1302260-04C

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302260
**Project:** Rock-Tenn 2/7/13

# QC BATCH REPORT

Batch ID: **46340** Instrument ID **ICPMS1** Method: **SW6020A**

**MBLK** Sample ID: **MBLK-46340-46340** Units: **mg/L** Analysis Date: **2/12/2013 04:22 AM**
Client ID: Run ID: **ICPMS1_130211A** SeqNo: **2213400** Prep Date: **2/11/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | 0.0050 | | | | | | | | |
| Barium | ND | 0.0050 | | | | | | | | |
| Cadmium | ND | 0.0020 | | | | | | | | |
| Chromium | ND | 0.0050 | | | | | | | | |
| Copper | ND | 0.0050 | | | | | | | | |
| Lead | ND | 0.0050 | | | | | | | | |
| Magnesium | 0.02966 | 0.20 | | | | | | | | J |
| Selenium | ND | 0.0050 | | | | | | | | |
| Silver | ND | 0.0050 | | | | | | | | |
| Thallium | 0.00008492 | 0.0050 | | | | | | | | J |
| Zinc | ND | 0.010 | | | | | | | | |

**MBLK** Sample ID: **MBLK-46340-46340** Units: **mg/L** Analysis Date: **2/12/2013 07:27 PM**
Client ID: Run ID: **ICPMS1_130212A** SeqNo: **2214117** Prep Date: **2/11/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Iron | ND | 0.080 | | | | | | | | |

**MBLK** Sample ID: **MBLK-46340-46340** Units: **mg/L** Analysis Date: **2/13/2013 03:47 PM**
Client ID: Run ID: **ICPMS1_130213A** SeqNo: **2214878** Prep Date: **2/11/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Boron | 0.003292 | 0.020 | | | | | | | | J |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302260
**Project:** Rock-Tenn 2/7/13

# QC BATCH REPORT

Batch ID: **46340** Instrument ID **ICPMS1** Method: **SW6020A**

**LCS** Sample ID: **LCS-46340-46340** Units: **mg/L** Analysis Date: **2/12/2013 04:47 AM**
Client ID: Run ID: **ICPMS1_130211A** SeqNo: **2213404** Prep Date: **2/11/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.09068 | 0.0050 | 0.1 | 0 | 90.7 | 80-120 | 0 | | | |
| Barium | 0.08894 | 0.0050 | 0.1 | 0 | 88.9 | 80-120 | 0 | | | |
| Boron | 0.4613 | 0.020 | 0.5 | 0 | 92.3 | 80-120 | 0 | | | B |
| Cadmium | 0.09018 | 0.0020 | 0.1 | 0 | 90.2 | 80-120 | 0 | | | |
| Chromium | 0.08659 | 0.0050 | 0.1 | 0 | 86.6 | 80-120 | 0 | | | |
| Copper | 0.09424 | 0.0050 | 0.1 | 0 | 94.2 | 80-120 | 0 | | | |
| Iron | 8.953 | 0.080 | 10 | 0 | 89.5 | 80-120 | 0 | | | |
| Lead | 0.09124 | 0.0050 | 0.1 | 0 | 91.2 | 80-120 | 0 | | | |
| Magnesium | 9.254 | 0.20 | 10 | 0 | 92.5 | 80-120 | 0 | | | |
| Selenium | 0.0864 | 0.0050 | 0.1 | 0 | 86.4 | 80-120 | 0 | | | |
| Silver | 0.08941 | 0.0050 | 0.1 | 0 | 89.4 | 80-120 | 0 | | | |
| Thallium | 0.0845 | 0.0050 | 0.1 | 0 | 84.5 | 80-120 | 0 | | | |
| Zinc | 0.08862 | 0.010 | 0.1 | 0 | 88.6 | 80-120 | 0 | | | |

**MS** Sample ID: **1302260-01CMS** Units: **mg/L** Analysis Date: **2/12/2013 04:58 AM**
Client ID: **RT-GB-8W** Run ID: **ICPMS1_130211A** SeqNo: **2213406** Prep Date: **2/11/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.0988 | 0.0050 | 0.1 | 0.0006866 | 98.1 | 75-125 | 0 | | | |
| Barium | 0.1781 | 0.0050 | 0.1 | 0.08367 | 94.4 | 75-125 | 0 | | | |
| Boron | 0.6947 | 0.020 | 0.5 | 0.2166 | 95.6 | 75-125 | 0 | | | B |
| Cadmium | 0.09523 | 0.0020 | 0.1 | 0.0001079 | 95.1 | 75-125 | 0 | | | |
| Chromium | 0.09494 | 0.0050 | 0.1 | 0.0007984 | 94.1 | 75-125 | 0 | | | |
| Copper | 0.09364 | 0.0050 | 0.1 | 0.000949 | 92.7 | 75-125 | 0 | | | |
| Iron | 20.14 | 0.080 | 10 | 10.5 | 96.4 | 75-125 | 0 | | | |
| Lead | 0.09797 | 0.0050 | 0.1 | 0.0002643 | 97.7 | 75-125 | 0 | | | |
| Magnesium | 40.97 | 0.20 | 10 | 31.56 | 94.1 | 75-125 | 0 | | | |
| Selenium | 0.09448 | 0.0050 | 0.1 | 0.00007832 | 94.4 | 75-125 | 0 | | | |
| Silver | 0.09307 | 0.0050 | 0.1 | 0.00005539 | 93 | 75-125 | 0 | | | |
| Thallium | 0.09262 | 0.0050 | 0.1 | 0.0005166 | 92.1 | 75-125 | 0 | | | |
| Zinc | 0.411 | 0.010 | 0.1 | 0.3156 | 95.4 | 75-125 | 0 | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302260
**Project:** Rock-Tenn 2/7/13

# QC BATCH REPORT

Batch ID: **46340** Instrument ID **ICPMS1** Method: **SW6020A**

**MSD** Sample ID: **1302260-01CMSD** Units: **mg/L** Analysis Date: **2/12/2013 05:04 AM**
Client ID: **RT-GB-8W** Run ID: **ICPMS1_130211A** SeqNo: **2213407** Prep Date: **2/11/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.09722 | 0.0050 | 0.1 | 0.0006866 | 96.5 | 75-125 | 0.0988 | 1.61 | 20 | |
| Barium | 0.1752 | 0.0050 | 0.1 | 0.08367 | 91.5 | 75-125 | 0.1781 | 1.64 | 20 | |
| Boron | 0.6681 | 0.020 | 0.5 | 0.2166 | 90.3 | 75-125 | 0.6947 | 3.9 | 20 | B |
| Cadmium | 0.09114 | 0.0020 | 0.1 | 0.0001079 | 91 | 75-125 | 0.09523 | 4.39 | 20 | |
| Chromium | 0.08964 | 0.0050 | 0.1 | 0.0007984 | 88.8 | 75-125 | 0.09494 | 5.74 | 20 | |
| Copper | 0.08816 | 0.0050 | 0.1 | 0.000949 | 87.2 | 75-125 | 0.09364 | 6.03 | 20 | |
| Iron | 19.28 | 0.080 | 10 | 10.5 | 87.8 | 75-125 | 20.14 | 4.36 | 20 | |
| Lead | 0.09424 | 0.0050 | 0.1 | 0.0002643 | 94 | 75-125 | 0.09797 | 3.88 | 20 | |
| Magnesium | 40.63 | 0.20 | 10 | 31.56 | 90.7 | 75-125 | 40.97 | 0.833 | 20 | |
| Selenium | 0.09012 | 0.0050 | 0.1 | 0.00007832 | 90 | 75-125 | 0.09448 | 4.72 | 20 | |
| Silver | 0.08751 | 0.0050 | 0.1 | 0.00005539 | 87.5 | 75-125 | 0.09307 | 6.16 | 20 | |
| Thallium | 0.08892 | 0.0050 | 0.1 | 0.0005166 | 88.4 | 75-125 | 0.09262 | 4.08 | 20 | |
| Zinc | 0.3921 | 0.010 | 0.1 | 0.3156 | 76.5 | 75-125 | 0.411 | 4.71 | 20 | |

**The following samples were analyzed in this batch:** 1302260-01C 1302260-02C 1302260-03C 1302260-04C

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302260
**Project:** Rock-Tenn 2/7/13

# QC BATCH REPORT

Batch ID: **46334** Instrument ID **SVMS4** Method: **SW8270**

**MBLK** Sample ID: **SBLKW1-46334-46334** Units: **µg/L** Analysis Date: **2/12/2013 02:31 PM**
Client ID: Run ID: **SVMS4_130212A** SeqNo: **2214420** Prep Date: **2/11/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1`-Biphenyl | ND | 5.0 | | | | | | | | |
| 2,4,5-Trichlorophenol | ND | 5.0 | | | | | | | | |
| 2,4,6-Trichlorophenol | ND | 5.0 | | | | | | | | |
| 2,4-Dichlorophenol | ND | 10 | | | | | | | | |
| 2,4-Dimethylphenol | ND | 5.0 | | | | | | | | |
| 2,4-Dinitrophenol | ND | 5.0 | | | | | | | | |
| 2,4-Dinitrotoluene | ND | 5.0 | | | | | | | | |
| 2,6-Dinitrotoluene | ND | 5.0 | | | | | | | | |
| 2-Chloronaphthalene | ND | 5.0 | | | | | | | | |
| 2-Chlorophenol | ND | 5.0 | | | | | | | | |
| 2-Methylnaphthalene | ND | 5.0 | | | | | | | | |
| 2-Methylphenol | ND | 5.0 | | | | | | | | |
| 2-Nitroaniline | ND | 20 | | | | | | | | |
| 2-Nitrophenol | ND | 5.0 | | | | | | | | |
| 3,3´-Dichlorobenzidine | ND | 5.0 | | | | | | | | |
| 3-Nitroaniline | ND | 20 | | | | | | | | |
| 4,6-Dinitro-2-methylphenol | ND | 20 | | | | | | | | |
| 4-Bromophenyl phenyl ether | ND | 5.0 | | | | | | | | |
| 4-Chloro-3-methylphenol | ND | 5.0 | | | | | | | | |
| 4-Chloroaniline | ND | 20 | | | | | | | | |
| 4-Chlorophenyl phenyl ether | ND | 5.0 | | | | | | | | |
| 4-Methylphenol | ND | 5.0 | | | | | | | | |
| 4-Nitroaniline | ND | 20 | | | | | | | | |
| 4-Nitrophenol | ND | 20 | | | | | | | | |
| Acenaphthene | ND | 5.0 | | | | | | | | |
| Acenaphthylene | ND | 5.0 | | | | | | | | |
| Acetophenone | ND | 1.0 | | | | | | | | |
| Anthracene | ND | 5.0 | | | | | | | | |
| Atrazine | ND | 1.0 | | | | | | | | |
| Benzaldehyde | ND | 1.0 | | | | | | | | |
| Benzo(a)anthracene | ND | 5.0 | | | | | | | | |
| Benzo(a)pyrene | ND | 5.0 | | | | | | | | |
| Benzo(b)fluoranthene | ND | 5.0 | | | | | | | | |
| Benzo(g,h,i)perylene | ND | 5.0 | | | | | | | | |
| Benzo(k)fluoranthene | ND | 5.0 | | | | | | | | |
| Bis(2-chloroethoxy)methane | ND | 5.0 | | | | | | | | |
| Bis(2-chloroethyl)ether | ND | 5.0 | | | | | | | | |
| Bis(2-chloroisopropyl)ether | ND | 5.0 | | | | | | | | |
| Bis(2-ethylhexyl)phthalate | ND | 5.0 | | | | | | | | |
| Butyl benzyl phthalate | ND | 5.0 | | | | | | | | |
| Caprolactam | ND | 10 | | | | | | | | |
| Carbazole | ND | 10 | | | | | | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

# QC BATCH REPORT

Batch ID: **46334** Instrument ID **SVMS4** Method: **SW8270**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Chrysene | ND | 5.0 | | | | | | |
| Dibenzo(a,h)anthracene | ND | 5.0 | | | | | | |
| Dibenzofuran | ND | 5.0 | | | | | | |
| Diethyl phthalate | ND | 20 | | | | | | |
| Dimethyl phthalate | ND | 20 | | | | | | |
| Di-n-butyl phthalate | 1.19 | 5.0 | | | | | | J |
| Di-n-octyl phthalate | ND | 5.0 | | | | | | |
| Fluoranthene | ND | 5.0 | | | | | | |
| Fluorene | ND | 5.0 | | | | | | |
| Hexachlorobenzene | ND | 5.0 | | | | | | |
| Hexachlorobutadiene | ND | 5.0 | | | | | | |
| Hexachlorocyclopentadiene | ND | 20 | | | | | | |
| Hexachloroethane | ND | 5.0 | | | | | | |
| Indeno(1,2,3-cd)pyrene | ND | 5.0 | | | | | | |
| Isophorone | ND | 5.0 | | | | | | |
| Naphthalene | ND | 5.0 | | | | | | |
| Nitrobenzene | ND | 5.0 | | | | | | |
| N-Nitrosodi-n-propylamine | ND | 5.0 | | | | | | |
| N-Nitrosodiphenylamine | ND | 5.0 | | | | | | |
| Pentachlorophenol | ND | 20 | | | | | | |
| Phenanthrene | ND | 5.0 | | | | | | |
| Phenol | ND | 5.0 | | | | | | |
| Pyrene | ND | 5.0 | | | | | | |
| *Surr: 2,4,6-Tribromophenol* | *31.48* | 0 | *50* | 0 | *63* | *38-115* | 0 | |
| *Surr: 2-Fluorobiphenyl* | *31.7* | 0 | *50* | 0 | *63.4* | *32-100* | 0 | |
| *Surr: 2-Fluorophenol* | *19.93* | 0 | *50* | 0 | *39.9* | *22-59* | 0 | |
| *Surr: 4-Terphenyl-d14* | *52.19* | 0 | *50* | 0 | *104* | *23-112* | 0 | |
| *Surr: Nitrobenzene-d5* | *34.08* | 0 | *50* | 0 | *68.2* | *31-93* | 0 | |
| *Surr: Phenol-d6* | *10.92* | 0 | *50* | 0 | *21.8* | *13-36* | 0 | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302260
**Project:** Rock-Tenn 2/7/13

# QC BATCH REPORT

Batch ID: **46334** Instrument ID **SVMS4** Method: **SW8270**

**LCS** Sample ID: **SLCSW1-46334-46334** Units: **µg/L** Analysis Date: **2/12/2013 02:00 PM**

Client ID: Run ID: **SVMS4_130212A** SeqNo: **2214419** Prep Date: **2/11/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4,5-Trichlorophenol | 14.27 | 5.0 | 20 | 0 | 71.4 | 50-110 | 0 | | | |
| 2,4,6-Trichlorophenol | 14.22 | 5.0 | 20 | 0 | 71.1 | 50-115 | 0 | | | |
| 2,4-Dichlorophenol | 13.29 | 10 | 20 | 0 | 66.4 | 50-105 | 0 | | | |
| 2,4-Dimethylphenol | 11.18 | 5.0 | 20 | 0 | 55.9 | 30-110 | 0 | | | |
| 2,4-Dinitrophenol | 18.42 | 5.0 | 20 | 0 | 92.1 | 15-140 | 0 | | | |
| 2,4-Dinitrotoluene | 15.9 | 5.0 | 20 | 0 | 79.5 | 50-120 | 0 | | | |
| 2,6-Dinitrotoluene | 15.9 | 5.0 | 20 | 0 | 79.5 | 50-115 | 0 | | | |
| 2-Chloronaphthalene | 14.81 | 5.0 | 20 | 0 | 74 | 50-105 | 0 | | | |
| 2-Chlorophenol | 15.4 | 5.0 | 20 | 0 | 77 | 35-105 | 0 | | | |
| 2-Methylnaphthalene | 14.29 | 5.0 | 20 | 0 | 71.4 | 45-105 | 0 | | | |
| 2-Methylphenol | 12.85 | 5.0 | 20 | 0 | 64.2 | 40-110 | 0 | | | |
| 2-Nitroaniline | 17.67 | 20 | 20 | 0 | 88.4 | 50-115 | 0 | | | J |
| 2-Nitrophenol | 14.21 | 5.0 | 20 | 0 | 71 | 40-115 | 0 | | | |
| 3-Nitroaniline | 12.77 | 20 | 20 | 0 | 63.8 | 20-125 | 0 | | | J |
| 4,6-Dinitro-2-methylphenol | 20.25 | 20 | 20 | 0 | 101 | 40-130 | 0 | | | |
| 4-Bromophenyl phenyl ether | 17.47 | 5.0 | 20 | 0 | 87.4 | 50-115 | 0 | | | |
| 4-Chloro-3-methylphenol | 14.29 | 5.0 | 20 | 0 | 71.4 | 45-110 | 0 | | | |
| 4-Chloroaniline | 19.86 | 20 | 20 | 0 | 99.3 | 15-110 | 0 | | | J |
| 4-Chlorophenyl phenyl ether | 14.62 | 5.0 | 20 | 0 | 73.1 | 50-110 | 0 | | | |
| 4-Methylphenol | 11.3 | 5.0 | 20 | 0 | 56.5 | 30-110 | 0 | | | |
| 4-Nitroaniline | 12.71 | 20 | 20 | 0 | 63.6 | 35-150 | 0 | | | J |
| 4-Nitrophenol | 6.75 | 20 | 20 | 0 | 33.8 | 1-58 | 0 | | | J |
| Acenaphthene | 15.67 | 5.0 | 20 | 0 | 78.4 | 45-110 | 0 | | | |
| Acenaphthylene | 15.31 | 5.0 | 20 | 0 | 76.6 | 50-105 | 0 | | | |
| Anthracene | 18.39 | 5.0 | 20 | 0 | 92 | 55-110 | 0 | | | |
| Benzo(a)anthracene | 18.16 | 5.0 | 20 | 0 | 90.8 | 55-110 | 0 | | | |
| Benzo(a)pyrene | 19.19 | 5.0 | 20 | 0 | 96 | 55-110 | 0 | | | |
| Benzo(b)fluoranthene | 19.47 | 5.0 | 20 | 0 | 97.4 | 45-120 | 0 | | | |
| Benzo(g,h,i)perylene | 20.58 | 5.0 | 20 | 0 | 103 | 40-125 | 0 | | | |
| Benzo(k)fluoranthene | 20.05 | 5.0 | 20 | 0 | 100 | 45-125 | 0 | | | |
| Bis(2-chloroethoxy)methane | 15.04 | 5.0 | 20 | 0 | 75.2 | 45-105 | 0 | | | |
| Bis(2-chloroethyl)ether | 16.12 | 5.0 | 20 | 0 | 80.6 | 35-110 | 0 | | | |
| Bis(2-chloroisopropyl)ether | 15.75 | 5.0 | 20 | 0 | 78.8 | 25-130 | 0 | | | |
| Bis(2-ethylhexyl)phthalate | 18.78 | 5.0 | 20 | 0 | 93.9 | 40-125 | 0 | | | |
| Butyl benzyl phthalate | 19.5 | 5.0 | 20 | 0 | 97.5 | 45-115 | 0 | | | |
| Carbazole | 21.49 | 10 | 20 | 0 | 107 | 50-150 | 0 | | | |
| Chrysene | 18.97 | 5.0 | 20 | 0 | 94.8 | 55-110 | 0 | | | |
| Dibenzo(a,h)anthracene | 20.22 | 5.0 | 20 | 0 | 101 | 40-125 | 0 | | | |
| Dibenzofuran | 15.39 | 5.0 | 20 | 0 | 77 | 55-105 | 0 | | | |
| Diethyl phthalate | 17.3 | 20 | 20 | 0 | 86.5 | 40-120 | 0 | | | J |
| Dimethyl phthalate | 16.75 | 20 | 20 | 0 | 83.8 | 25-125 | 0 | | | J |
| Di-n-butyl phthalate | 18.43 | 5.0 | 20 | 0 | 92.2 | 55-115 | 0 | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

# QC BATCH REPORT

Batch ID: **46334** Instrument ID **SVMS4** Method: **SW8270**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Di-n-octyl phthalate | 17.13 | 5.0 | 20 | 0 | 85.6 | 35-135 | 0 | |
| Fluoranthene | 19.65 | 5.0 | 20 | 0 | 98.2 | 55-115 | 0 | |
| Fluorene | 15.8 | 5.0 | 20 | 0 | 79 | 50-110 | 0 | |
| Hexachlorobenzene | 17.49 | 5.0 | 20 | 0 | 87.4 | 50-110 | 0 | |
| Hexachlorobutadiene | 13.1 | 5.0 | 20 | 0 | 65.5 | 25-105 | 0 | |
| Hexachlorocyclopentadiene | 10.6 | 20 | 20 | 0 | 53 | 25-105 | 0 | J |
| Hexachloroethane | 15.04 | 5.0 | 20 | 0 | 75.2 | 30-95 | 0 | |
| Indeno(1,2,3-cd)pyrene | 20.38 | 5.0 | 20 | 0 | 102 | 45-125 | 0 | |
| Isophorone | 16.01 | 5.0 | 20 | 0 | 80 | 50-110 | 0 | |
| Naphthalene | 14.27 | 5.0 | 20 | 0 | 71.4 | 40-100 | 0 | |
| Nitrobenzene | 15.44 | 5.0 | 20 | 0 | 77.2 | 45-110 | 0 | |
| N-Nitrosodi-n-propylamine | 15.99 | 5.0 | 20 | 0 | 80 | 35-130 | 0 | |
| N-Nitrosodiphenylamine | 18.67 | 5.0 | 20 | 0 | 93.4 | 50-110 | 0 | |
| Pentachlorophenol | 15.3 | 20 | 20 | 0 | 76.5 | 40-115 | 0 | J |
| Phenanthrene | 17.93 | 5.0 | 20 | 0 | 89.6 | 50-115 | 0 | |
| Phenol | 5.92 | 5.0 | 20 | 0 | 29.6 | 12-43 | 0 | |
| Pyrene | 19.05 | 5.0 | 20 | 0 | 95.2 | 50-130 | 0 | |
| *Surr: 2,4,6-Tribromophenol* | *37.9* | 0 | *50* | 0 | *75.8* | *38-115* | 0 | |
| *Surr: 2-Fluorobiphenyl* | *33.9* | 0 | *50* | 0 | *67.8* | *32-100* | 0 | |
| *Surr: 2-Fluorophenol* | *21.79* | 0 | *50* | 0 | *43.6* | *22-59* | 0 | |
| *Surr: 4-Terphenyl-d14* | *51.49* | 0 | *50* | 0 | *103* | *23-112* | 0 | |
| *Surr: Nitrobenzene-d5* | *35.46* | 0 | *50* | 0 | *70.9* | *31-93* | 0 | |
| *Surr: Phenol-d6* | *12.96* | 0 | *50* | 0 | *25.9* | *13-36* | 0 | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302260
**Project:** Rock-Tenn 2/7/13

# QC BATCH REPORT

Batch ID: **46334** Instrument ID **SVMS4** Method: **SW8270**

**MS** Sample ID: **1302260-01B MS** Units: **µg/L** Analysis Date: **2/12/2013 03:47 PM**
Client ID: **RT-GB-8W** Run ID: **SVMS4_130212A** SeqNo: **2214421** Prep Date: **2/11/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4,5-Trichlorophenol | 144 | 50 | 200 | 0 | 72 | 50-110 | 0 | | | |
| 2,4,6-Trichlorophenol | 140.9 | 50 | 200 | 0 | 70.4 | 50-115 | 0 | | | |
| 2,4-Dichlorophenol | 132.4 | 100 | 200 | 0 | 66.2 | 50-105 | 0 | | | |
| 2,4-Dimethylphenol | 117.2 | 50 | 200 | 0 | 58.6 | 30-110 | 0 | | | |
| 2,4-Dinitrophenol | 189.9 | 50 | 200 | 0 | 95 | 15-140 | 0 | | | |
| 2,4-Dinitrotoluene | 156.4 | 50 | 200 | 0 | 78.2 | 50-120 | 0 | | | |
| 2,6-Dinitrotoluene | 158.2 | 50 | 200 | 0 | 79.1 | 50-115 | 0 | | | |
| 2-Chloronaphthalene | 145.2 | 50 | 200 | 0 | 72.6 | 50-105 | 0 | | | |
| 2-Chlorophenol | 149.9 | 50 | 200 | 0 | 75 | 35-105 | 0 | | | |
| 2-Methylnaphthalene | 143.1 | 50 | 200 | 0 | 71.6 | 45-105 | 0 | | | |
| 2-Methylphenol | 128.6 | 50 | 200 | 0 | 64.3 | 40-110 | 0 | | | |
| 2-Nitroaniline | 174.3 | 200 | 200 | 0 | 87.2 | 50-115 | 0 | | | J |
| 2-Nitrophenol | 140.2 | 50 | 200 | 0 | 70.1 | 40-115 | 0 | | | |
| 3-Nitroaniline | 163.4 | 200 | 200 | 0 | 81.7 | 20-125 | 0 | | | J |
| 4,6-Dinitro-2-methylphenol | 205.4 | 200 | 200 | 0 | 103 | 40-130 | 0 | | | |
| 4-Bromophenyl phenyl ether | 169.8 | 50 | 200 | 0 | 84.9 | 50-115 | 0 | | | |
| 4-Chloro-3-methylphenol | 142.1 | 50 | 200 | 0 | 71 | 45-110 | 0 | | | |
| 4-Chloroaniline | 190.4 | 200 | 200 | 0 | 95.2 | 15-110 | 0 | | | J |
| 4-Chlorophenyl phenyl ether | 143.8 | 50 | 200 | 0 | 71.9 | 50-110 | 0 | | | |
| 4-Methylphenol | 117.3 | 50 | 200 | 0 | 58.6 | 30-110 | 0 | | | |
| 4-Nitroaniline | 162.5 | 200 | 200 | 0 | 81.2 | 35-150 | 0 | | | J |
| 4-Nitrophenol | 74.9 | 200 | 200 | 0 | 37.4 | 1-58 | 0 | | | J |
| Acenaphthene | 152.4 | 50 | 200 | 0 | 76.2 | 45-110 | 0 | | | |
| Acenaphthylene | 150.6 | 50 | 200 | 0 | 75.3 | 50-105 | 0 | | | |
| Anthracene | 180.9 | 50 | 200 | 0 | 90.4 | 55-110 | 0 | | | |
| Benzo(a)anthracene | 178.6 | 50 | 200 | 0 | 89.3 | 55-110 | 0 | | | |
| Benzo(a)pyrene | 188.2 | 50 | 200 | 0 | 94.1 | 55-110 | 0 | | | |
| Benzo(b)fluoranthene | 190 | 50 | 200 | 0 | 95 | 45-120 | 0 | | | |
| Benzo(g,h,i)perylene | 203.2 | 50 | 200 | 0 | 102 | 40-125 | 0 | | | |
| Benzo(k)fluoranthene | 198.8 | 50 | 200 | 0 | 99.4 | 45-125 | 0 | | | |
| Bis(2-chloroethoxy)methane | 150.8 | 50 | 200 | 0 | 75.4 | 45-105 | 0 | | | |
| Bis(2-chloroethyl)ether | 156.4 | 50 | 200 | 0 | 78.2 | 35-110 | 0 | | | |
| Bis(2-chloroisopropyl)ether | 154.9 | 50 | 200 | 0 | 77.4 | 25-130 | 0 | | | |
| Bis(2-ethylhexyl)phthalate | 183.2 | 50 | 200 | 0 | 91.6 | 40-125 | 0 | | | |
| Butyl benzyl phthalate | 194.1 | 50 | 200 | 0 | 97 | 45-115 | 0 | | | |
| Carbazole | 211.2 | 100 | 200 | 0 | 106 | 50-150 | 0 | | | |
| Chrysene | 186.1 | 50 | 200 | 0 | 93 | 55-110 | 0 | | | |
| Dibenzo(a,h)anthracene | 196.7 | 50 | 200 | 0 | 98.4 | 40-125 | 0 | | | |
| Dibenzofuran | 149.9 | 50 | 200 | 0 | 75 | 55-105 | 0 | | | |
| Diethyl phthalate | 171 | 200 | 200 | 0 | 85.5 | 40-120 | 0 | | | J |
| Dimethyl phthalate | 164.5 | 200 | 200 | 0 | 82.2 | 25-125 | 0 | | | J |
| Di-n-butyl phthalate | 181.8 | 50 | 200 | 1.19 | 90.3 | 55-115 | 0 | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

# QC BATCH REPORT

Batch ID: **46334** Instrument ID **SVMS4** Method: **SW8270**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Di-n-octyl phthalate | 168.8 | 50 | 200 | 0 | 84.4 | 35-135 | 0 | |
| Fluoranthene | 194.4 | 50 | 200 | 0 | 97.2 | 55-115 | 0 | |
| Fluorene | 154.4 | 50 | 200 | 0 | 77.2 | 50-110 | 0 | |
| Hexachlorobenzene | 174.6 | 50 | 200 | 0 | 87.3 | 50-110 | 0 | |
| Hexachlorobutadiene | 133.1 | 50 | 200 | 0 | 66.6 | 25-105 | 0 | |
| Hexachlorocyclopentadiene | 110.4 | 200 | 200 | 0 | 55.2 | 25-105 | 0 | J |
| Hexachloroethane | 145.3 | 50 | 200 | 0 | 72.6 | 30-95 | 0 | |
| Indeno(1,2,3-cd)pyrene | 199.5 | 50 | 200 | 0 | 99.8 | 45-125 | 0 | |
| Isophorone | 157.3 | 50 | 200 | 0 | 78.6 | 50-110 | 0 | |
| Naphthalene | 142 | 50 | 200 | 0 | 71 | 40-100 | 0 | |
| Nitrobenzene | 153.6 | 50 | 200 | 0 | 76.8 | 45-110 | 0 | |
| N-Nitrosodi-n-propylamine | 157.7 | 50 | 200 | 0 | 78.8 | 35-130 | 0 | |
| N-Nitrosodiphenylamine | 182.6 | 50 | 200 | 0 | 91.3 | 50-110 | 0 | |
| Pentachlorophenol | 155.5 | 200 | 200 | 0 | 77.8 | 40-115 | 0 | J |
| Phenanthrene | 177.2 | 50 | 200 | 0 | 88.6 | 50-115 | 0 | |
| Phenol | 67.9 | 50 | 200 | 0 | 34 | 12-43 | 0 | |
| Pyrene | 186.8 | 50 | 200 | 0 | 93.4 | 50-130 | 0 | |
| *Surr: 2,4,6-Tribromophenol* | *390.7* | 0 | *500* | 0 | *78.1* | *38-115* | 0 | |
| *Surr: 2-Fluorobiphenyl* | *340* | 0 | *500* | 0 | *68* | *32-100* | 0 | |
| *Surr: 2-Fluorophenol* | *227.1* | 0 | *500* | 0 | *45.4* | *22-59* | 0 | |
| *Surr: 4-Terphenyl-d14* | *514.5* | 0 | *500* | 0 | *103* | *23-112* | 0 | |
| *Surr: Nitrobenzene-d5* | *357.5* | 0 | *500* | 0 | *71.5* | *31-93* | 0 | |
| *Surr: Phenol-d6* | *138.7* | 0 | *500* | 0 | *27.7* | *13-36* | 0 | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302260
**Project:** Rock-Tenn 2/7/13

# QC BATCH REPORT

Batch ID: **46334** Instrument ID **SVMS4** Method: **SW8270**

**MSD** Sample ID: **1302260-01B MSD** Units: **µg/L** Analysis Date: **2/12/2013 04:19 PM**
Client ID: **RT-GB-8W** Run ID: **SVMS4_130212A** SeqNo: **2214422** Prep Date: **2/11/2013** DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,4,5-Trichlorophenol | 138.4 | 50 | 200 | 0 | 69.2 | 50-110 | 144 | 3.97 | 30 | |
| 2,4,6-Trichlorophenol | 133.5 | 50 | 200 | 0 | 66.8 | 50-115 | 140.9 | 5.39 | 30 | |
| 2,4-Dichlorophenol | 125.7 | 100 | 200 | 0 | 62.8 | 50-105 | 132.4 | 5.19 | 30 | |
| 2,4-Dimethylphenol | 100.2 | 50 | 200 | 0 | 50.1 | 30-110 | 117.2 | 15.6 | 30 | |
| 2,4-Dinitrophenol | 185.7 | 50 | 200 | 0 | 92.8 | 15-140 | 189.9 | 2.24 | 30 | |
| 2,4-Dinitrotoluene | 155.4 | 50 | 200 | 0 | 77.7 | 50-120 | 156.4 | 0.641 | 30 | |
| 2,6-Dinitrotoluene | 152.2 | 50 | 200 | 0 | 76.1 | 50-115 | 158.2 | 3.87 | 30 | |
| 2-Chloronaphthalene | 143 | 50 | 200 | 0 | 71.5 | 50-105 | 145.2 | 1.53 | 30 | |
| 2-Chlorophenol | 121.2 | 50 | 200 | 0 | 60.6 | 35-105 | 149.9 | 21.2 | 30 | |
| 2-Methylnaphthalene | 139.9 | 50 | 200 | 0 | 70 | 45-105 | 143.1 | 2.26 | 30 | |
| 2-Methylphenol | 97.7 | 50 | 200 | 0 | 48.8 | 40-110 | 128.6 | 27.3 | 30 | |
| 2-Nitroaniline | 169.9 | 200 | 200 | 0 | 85 | 50-115 | 174.3 | 0 | 30 | J |
| 2-Nitrophenol | 134.2 | 50 | 200 | 0 | 67.1 | 40-115 | 140.2 | 4.37 | 30 | |
| 3-Nitroaniline | 147.8 | 200 | 200 | 0 | 73.9 | 20-125 | 163.4 | 0 | 30 | J |
| 4,6-Dinitro-2-methylphenol | 204 | 200 | 200 | 0 | 102 | 40-130 | 205.4 | 0.684 | 30 | |
| 4-Bromophenyl phenyl ether | 163.9 | 50 | 200 | 0 | 82 | 50-115 | 169.8 | 3.54 | 30 | |
| 4-Chloro-3-methylphenol | 119.5 | 50 | 200 | 0 | 59.8 | 45-110 | 142.1 | 17.3 | 30 | |
| 4-Chloroaniline | 176.5 | 200 | 200 | 0 | 88.2 | 15-110 | 190.4 | 0 | 30 | J |
| 4-Chlorophenyl phenyl ether | 138.6 | 50 | 200 | 0 | 69.3 | 50-110 | 143.8 | 3.68 | 30 | |
| 4-Methylphenol | 85 | 50 | 200 | 0 | 42.5 | 30-110 | 117.3 | 31.9 | 30 | R |
| 4-Nitroaniline | 147.1 | 200 | 200 | 0 | 73.6 | 35-150 | 162.5 | 0 | 30 | J |
| 4-Nitrophenol | 66.1 | 200 | 200 | 0 | 33 | 1-58 | 74.9 | 0 | 0 | J |
| Acenaphthene | 148.9 | 50 | 200 | 0 | 74.4 | 45-110 | 152.4 | 2.32 | 30 | |
| Acenaphthylene | 145 | 50 | 200 | 0 | 72.5 | 50-105 | 150.6 | 3.79 | 30 | |
| Anthracene | 179.2 | 50 | 200 | 0 | 89.6 | 55-110 | 180.9 | 0.944 | 30 | |
| Benzo(a)anthracene | 176.8 | 50 | 200 | 0 | 88.4 | 55-110 | 178.6 | 1.01 | 30 | |
| Benzo(a)pyrene | 187.9 | 50 | 200 | 0 | 94 | 55-110 | 188.2 | 0.16 | 30 | |
| Benzo(b)fluoranthene | 193.6 | 50 | 200 | 0 | 96.8 | 45-120 | 190 | 1.88 | 30 | |
| Benzo(g,h,i)perylene | 202.4 | 50 | 200 | 0 | 101 | 40-125 | 203.2 | 0.394 | 30 | |
| Benzo(k)fluoranthene | 198 | 50 | 200 | 0 | 99 | 45-125 | 198.8 | 0.403 | 30 | |
| Bis(2-chloroethoxy)methane | 146 | 50 | 200 | 0 | 73 | 45-105 | 150.8 | 3.23 | 30 | |
| Bis(2-chloroethyl)ether | 159.3 | 50 | 200 | 0 | 79.6 | 35-110 | 156.4 | 1.84 | 30 | |
| Bis(2-chloroisopropyl)ether | 148.3 | 50 | 200 | 0 | 74.2 | 25-130 | 154.9 | 4.35 | 30 | |
| Bis(2-ethylhexyl)phthalate | 185.6 | 50 | 200 | 0 | 92.8 | 40-125 | 183.2 | 1.3 | 30 | |
| Butyl benzyl phthalate | 196 | 50 | 200 | 0 | 98 | 45-115 | 194.1 | 0.974 | 30 | |
| Carbazole | 216.2 | 100 | 200 | 0 | 108 | 50-150 | 211.2 | 2.34 | 30 | |
| Chrysene | 186.5 | 50 | 200 | 0 | 93.2 | 55-110 | 186.1 | 0.215 | 30 | |
| Dibenzo(a,h)anthracene | 198.9 | 50 | 200 | 0 | 99.4 | 40-125 | 196.7 | 1.11 | 30 | |
| Dibenzofuran | 146.4 | 50 | 200 | 0 | 73.2 | 55-105 | 149.9 | 2.36 | 30 | |
| Diethyl phthalate | 167.2 | 200 | 200 | 0 | 83.6 | 40-120 | 171 | 0 | 30 | J |
| Dimethyl phthalate | 160.9 | 200 | 200 | 0 | 80.4 | 25-125 | 164.5 | 0 | 30 | J |
| Di-n-butyl phthalate | 183.3 | 50 | 200 | 1.19 | 91.1 | 55-115 | 181.8 | 0.822 | 30 | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

# QC BATCH REPORT

Batch ID: **46334** Instrument ID **SVMS4** Method: **SW8270**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Di-n-octyl phthalate | 169.1 | 50 | 200 | 0 | 84.6 | 35-135 | 168.8 | 0.178 | 30 | |
| Fluoranthene | 193.3 | 50 | 200 | 0 | 96.6 | 55-115 | 194.4 | 0.567 | 30 | |
| Fluorene | 150.4 | 50 | 200 | 0 | 75.2 | 50-110 | 154.4 | 2.62 | 30 | |
| Hexachlorobenzene | 169 | 50 | 200 | 0 | 84.5 | 50-110 | 174.6 | 3.26 | 30 | |
| Hexachlorobutadiene | 125.1 | 50 | 200 | 0 | 62.6 | 25-105 | 133.1 | 6.2 | 30 | |
| Hexachlorocyclopentadiene | 109.8 | 200 | 200 | 0 | 54.9 | 25-105 | 110.4 | 0 | 30 | J |
| Hexachloroethane | 138.6 | 50 | 200 | 0 | 69.3 | 30-95 | 145.3 | 4.72 | 30 | |
| Indeno(1,2,3-cd)pyrene | 200.2 | 50 | 200 | 0 | 100 | 45-125 | 199.5 | 0.35 | 30 | |
| Isophorone | 154.8 | 50 | 200 | 0 | 77.4 | 50-110 | 157.3 | 1.6 | 30 | |
| Naphthalene | 137.5 | 50 | 200 | 0 | 68.8 | 40-100 | 142 | 3.22 | 30 | |
| Nitrobenzene | 149.3 | 50 | 200 | 0 | 74.6 | 45-110 | 153.6 | 2.84 | 30 | |
| N-Nitrosodi-n-propylamine | 154.3 | 50 | 200 | 0 | 77.2 | 35-130 | 157.7 | 2.18 | 30 | |
| N-Nitrosodiphenylamine | 173.3 | 50 | 200 | 0 | 86.6 | 50-110 | 182.6 | 5.23 | 30 | |
| Pentachlorophenol | 156.7 | 200 | 200 | 0 | 78.4 | 40-115 | 155.5 | 0 | 30 | J |
| Phenanthrene | 172.5 | 50 | 200 | 0 | 86.2 | 50-115 | 177.2 | 2.69 | 30 | |
| Phenol | 46.4 | 50 | 200 | 0 | 23.2 | 12-43 | 67.9 | 0 | 30 | J |
| Pyrene | 187.3 | 50 | 200 | 0 | 93.6 | 50-130 | 186.8 | 0.267 | 30 | |
| *Surr: 2,4,6-Tribromophenol* | *378.6* | 0 | *500* | 0 | *75.7* | *38-115* | 390.7 | *3.15* | *40* | |
| *Surr: 2-Fluorobiphenyl* | *326.6* | 0 | *500* | 0 | *65.3* | *32-100* | 340 | *4.02* | *40* | |
| *Surr: 2-Fluorophenol* | *159.3* | 0 | *500* | 0 | *31.9* | *22-59* | 227.1 | *35.1* | *40* | |
| *Surr: 4-Terphenyl-d14* | *475.2* | 0 | *500* | 0 | *95* | *23-112* | 514.5 | *7.94* | *40* | |
| *Surr: Nitrobenzene-d5* | *351.2* | 0 | *500* | 0 | *70.2* | *31-93* | 357.5 | *1.78* | *40* | |
| *Surr: Phenol-d6* | *102.1* | 0 | *500* | 0 | *20.4* | *13-36* | 138.7 | *30.4* | *40* | |

**The following samples were analyzed in this batch:**

| | | |
|---|---|---|
| 1302260-01B | 1302260-02B | 1302260-03B |
| 1302260-04B | 1302260-05B | 1302260-06B |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302260
**Project:** Rock-Tenn 2/7/13

# QC BATCH REPORT

Batch ID: **R116086A** Instrument ID **VMS5** Method: **SW8260**

**MBLK** Sample ID: **VBLKW2-130208-R116086A** Units: **µg/L** Analysis Date: **2/8/2013 11:28 PM**
Client ID: Run ID: **VMS5_130208B** SeqNo: **2212157** Prep Date: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 1.0 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 1.0 | | | | | | | | |
| 1,1-Dichloroethane | ND | 1.0 | | | | | | | | |
| 1,1-Dichloroethene | ND | 1.0 | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 1.0 | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | | | | | | | | |
| 1,2-Dibromoethane | ND | 1.0 | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 1.0 | | | | | | | | |
| 1,2-Dichloroethane | ND | 1.0 | | | | | | | | |
| 1,2-Dichloropropane | ND | 2.0 | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 2.0 | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 2.0 | | | | | | | | |
| 2-Butanone | ND | 5.0 | | | | | | | | |
| 2-Hexanone | ND | 5.0 | | | | | | | | |
| 2-Methylnaphthalene | ND | 10 | | | | | | | | |
| 4-Methyl-2-pentanone | ND | 5.0 | | | | | | | | |
| Acetone | ND | 20 | | | | | | | | |
| Acrylonitrile | ND | 1.0 | | | | | | | | |
| Benzene | ND | 1.0 | | | | | | | | |
| Bromochloromethane | ND | 1.0 | | | | | | | | |
| Bromodichloromethane | ND | 1.0 | | | | | | | | |
| Bromomethane | ND | 1.0 | | | | | | | | |
| Carbon disulfide | ND | 2.5 | | | | | | | | |
| Carbon tetrachloride | ND | 1.0 | | | | | | | | |
| Chlorobenzene | ND | 1.0 | | | | | | | | |
| Chloroethane | ND | 1.0 | | | | | | | | |
| Chloroform | ND | 1.0 | | | | | | | | |
| Chloromethane | ND | 1.0 | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 1.0 | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 1.0 | | | | | | | | |
| Dibromochloromethane | ND | 1.0 | | | | | | | | |
| Dibromomethane | ND | 1.0 | | | | | | | | |
| Dichlorodifluoromethane | ND | 1.0 | | | | | | | | |
| Diethyl ether | ND | 10 | | | | | | | | |
| Ethylbenzene | ND | 1.0 | | | | | | | | |
| Hexachloroethane | ND | 1.0 | | | | | | | | |
| Isopropylbenzene | ND | 1.0 | | | | | | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

# QC BATCH REPORT

Batch ID: **R116086A** Instrument ID **VMS5** Method: **SW8260**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| m,p-Xylene | ND | 2.0 | | | | | |
| Methyl iodide | ND | 5.0 | | | | | |
| Methyl tert-butyl ether | ND | 5.0 | | | | | |
| Naphthalene | ND | 5.0 | | | | | |
| n-Propylbenzene | ND | 1.0 | | | | | |
| o-Xylene | ND | 1.0 | | | | | |
| Styrene | ND | 1.0 | | | | | |
| Tetrachloroethene | ND | 2.0 | | | | | |
| Toluene | ND | 1.0 | | | | | |
| trans-1,2-Dichloroethene | ND | 1.0 | | | | | |
| trans-1,3-Dichloropropene | ND | 1.0 | | | | | |
| trans-1,4-Dichloro-2-butene | ND | 5.0 | | | | | |
| Trichloroethene | ND | 1.0 | | | | | |
| Trichlorofluoromethane | ND | 1.0 | | | | | |
| Vinyl acetate | ND | 1.0 | | | | | |
| Vinyl chloride | ND | 1.0 | | | | | |
| Xylenes, Total | ND | 3.0 | | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *20.02* | 0 | *20* | 0 | *100* | *70-120* | 0 |
| *Surr: 4-Bromofluorobenzene* | *20.83* | 0 | *20* | 0 | *104* | *75-120* | 0 |
| *Surr: Dibromofluoromethane* | *19.68* | 0 | *20* | 0 | *98.4* | *85-115* | 0 |
| *Surr: Toluene-d8* | *18.3* | 0 | *20* | 0 | *91.5* | *85-120* | 0 |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302260
**Project:** Rock-Tenn 2/7/13

# QC BATCH REPORT

Batch ID: **R116086A** Instrument ID **VMS5** Method: **SW8260**

**LCS** Sample ID: **VLCSW2-130208-R116086A** Units: **µg/L** Analysis Date: **2/8/2013 10:40 PM**
Client ID: Run ID: **VMS5_130208B** SeqNo: **2212156** Prep Date: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 18.46 | 1.0 | 20 | 0 | 92.3 | 80-130 | 0 | | | |
| 1,1,1-Trichloroethane | 19.9 | 1.0 | 20 | 0 | 99.5 | 65-130 | 0 | | | |
| 1,1,2,2-Tetrachloroethane | 19.35 | 1.0 | 20 | 0 | 96.8 | 65-130 | 0 | | | |
| 1,1,2-Trichloroethane | 18.42 | 1.0 | 20 | 0 | 92.1 | 75-125 | 0 | | | |
| 1,1-Dichloroethane | 19.56 | 1.0 | 20 | 0 | 97.8 | 70-135 | 0 | | | |
| 1,1-Dichloroethene | 20.63 | 1.0 | 20 | 0 | 103 | 70-130 | 0 | | | |
| 1,2,3-Trichloropropane | 19.04 | 1.0 | 20 | 0 | 95.2 | 75-125 | 0 | | | |
| 1,2,4-Trichlorobenzene | 18.36 | 1.0 | 20 | 0 | 91.8 | 65-135 | 0 | | | |
| 1,2,4-Trimethylbenzene | 18.09 | 1.0 | 20 | 0 | 90.4 | 75-130 | 0 | | | |
| 1,2-Dibromo-3-chloropropane | 17.57 | 1.0 | 20 | 0 | 87.8 | 50-130 | 0 | | | |
| 1,2-Dibromoethane | 18.85 | 1.0 | 20 | 0 | 94.2 | 80-120 | 0 | | | |
| 1,2-Dichlorobenzene | 17.49 | 1.0 | 20 | 0 | 87.4 | 70-120 | 0 | | | |
| 1,2-Dichloroethane | 21.02 | 1.0 | 20 | 0 | 105 | 70-130 | 0 | | | |
| 1,2-Dichloropropane | 19.91 | 2.0 | 20 | 0 | 99.6 | 75-125 | 0 | | | |
| 1,3,5-Trimethylbenzene | 19.09 | 1.0 | 20 | 0 | 95.4 | 75-130 | 0 | | | |
| 1,3-Dichlorobenzene | 17.29 | 2.0 | 20 | 0 | 86.4 | 75-125 | 0 | | | |
| 1,4-Dichlorobenzene | 17.37 | 2.0 | 20 | 0 | 86.8 | 75-125 | 0 | | | |
| 2-Butanone | 17.04 | 5.0 | 20 | 0 | 85.2 | 30-150 | 0 | | | |
| 2-Hexanone | 21.11 | 5.0 | 20 | 0 | 106 | 55-130 | 0 | | | |
| 4-Methyl-2-pentanone | 20.52 | 5.0 | 20 | 0 | 103 | 60-135 | 0 | | | |
| Acetone | 15.92 | 20 | 20 | 0 | 79.6 | 40-140 | 0 | | | J |
| Acrylonitrile | 18.13 | 1.0 | 20 | 0 | 90.6 | 70-135 | 0 | | | |
| Benzene | 20.28 | 1.0 | 20 | 0 | 101 | 80-120 | 0 | | | |
| Bromochloromethane | 20.22 | 1.0 | 20 | 0 | 101 | 65-130 | 0 | | | |
| Bromodichloromethane | 19.81 | 1.0 | 20 | 0 | 99 | 75-120 | 0 | | | |
| Bromomethane | 22.38 | 1.0 | 20 | 0 | 112 | 30-145 | 0 | | | |
| Carbon disulfide | 22.18 | 2.5 | 20 | 0 | 111 | 35-165 | 0 | | | |
| Carbon tetrachloride | 20.81 | 1.0 | 20 | 0 | 104 | 65-140 | 0 | | | |
| Chlorobenzene | 18.26 | 1.0 | 20 | 0 | 91.3 | 80-120 | 0 | | | |
| Chloroethane | 19.04 | 1.0 | 20 | 0 | 95.2 | 60-135 | 0 | | | |
| Chloroform | 19.97 | 1.0 | 20 | 0 | 99.8 | 65-135 | 0 | | | |
| Chloromethane | 17.86 | 1.0 | 20 | 0 | 89.3 | 70-125 | 0 | | | |
| cis-1,2-Dichloroethene | 19.8 | 1.0 | 20 | 0 | 99 | 70-125 | 0 | | | |
| cis-1,3-Dichloropropene | 19.25 | 1.0 | 20 | 0 | 96.2 | 70-130 | 0 | | | |
| Dibromochloromethane | 17.93 | 1.0 | 20 | 0 | 89.6 | 60-135 | 0 | | | |
| Dibromomethane | 19.56 | 1.0 | 20 | 0 | 97.8 | 75-125 | 0 | | | |
| Dichlorodifluoromethane | 13.24 | 1.0 | 20 | 0 | 66.2 | 30-155 | 0 | | | |
| Ethylbenzene | 19.03 | 1.0 | 20 | 0 | 95.2 | 75-125 | 0 | | | |
| Hexachloroethane | 17.47 | 1.0 | 20 | 0 | 87.4 | 70-135 | 0 | | | |
| Isopropylbenzene | 19.09 | 1.0 | 20 | 0 | 95.4 | 75-125 | 0 | | | |
| m,p-Xylene | 37.53 | 2.0 | 40 | 0 | 93.8 | 75-130 | 0 | | | |
| Methyl iodide | 19.46 | 5.0 | 20 | 0 | 97.3 | 70-135 | 0 | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

# QC BATCH REPORT

Batch ID: **R116086A** Instrument ID **VMS5** Method: **SW8260**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 21.51 | 5.0 | 20 | 0 | 108 | 65-125 | 0 |
| Naphthalene | 17.7 | 5.0 | 20 | 0 | 88.5 | 55-140 | 0 |
| n-Propylbenzene | 18.8 | 1.0 | 20 | 0 | 94 | 70-130 | 0 |
| o-Xylene | 18.65 | 1.0 | 20 | 0 | 93.2 | 80-120 | 0 |
| Styrene | 18.48 | 1.0 | 20 | 0 | 92.4 | 65-135 | 0 |
| Tetrachloroethene | 18.91 | 2.0 | 20 | 0 | 94.6 | 45-150 | 0 |
| Toluene | 18.51 | 1.0 | 20 | 0 | 92.6 | 75-120 | 0 |
| trans-1,2-Dichloroethene | 20.29 | 1.0 | 20 | 0 | 101 | 60-140 | 0 |
| trans-1,3-Dichloropropene | 17.64 | 1.0 | 20 | 0 | 88.2 | 55-140 | 0 |
| trans-1,4-Dichloro-2-butene | 18.28 | 5.0 | 20 | 0 | 91.4 | 70-135 | 0 |
| Trichloroethene | 19.19 | 1.0 | 20 | 0 | 96 | 70-125 | 0 |
| Trichlorofluoromethane | 19.85 | 1.0 | 20 | 0 | 99.2 | 60-145 | 0 |
| Vinyl chloride | 18.81 | 1.0 | 20 | 0 | 94 | 50-145 | 0 |
| Xylenes, Total | 56.18 | 3.0 | 60 | 0 | 93.6 | 75-130 | 0 |
| *Surr: 1,2-Dichloroethane-d4* | *19.92* | 0 | *20* | 0 | *99.6* | *70-120* | 0 |
| *Surr: 4-Bromofluorobenzene* | *20.95* | 0 | *20* | 0 | *105* | *75-120* | 0 |
| *Surr: Dibromofluoromethane* | *19.6* | 0 | *20* | 0 | *98* | *85-115* | 0 |
| *Surr: Toluene-d8* | *18.56* | 0 | *20* | 0 | *92.8* | *85-120* | 0 |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302260
**Project:** Rock-Tenn 2/7/13

# QC BATCH REPORT

Batch ID: **R116086A** Instrument ID **VMS5** Method: **SW8260**

| **MS** | Sample ID: **1302289-07A MS** | | | | Units: **µg/L** | | | Analysis Date: **2/9/2013 08:18 AM** | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | | Run ID: **VMS5_130208B** | | | SeqNo: **2212479** | | Prep Date: | | DF: **1** | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| 1,1,1,2-Tetrachloroethane | 17.66 | 1.0 | 20 | 0 | 88.3 | 80-130 | 0 | | | |
| 1,1,1-Trichloroethane | 21.06 | 1.0 | 20 | 0 | 105 | 65-130 | 0 | | | |
| 1,1,2,2-Tetrachloroethane | 17.6 | 1.0 | 20 | 0 | 88 | 65-130 | 0 | | | |
| 1,1,2-Trichloroethane | 17.67 | 1.0 | 20 | 0 | 88.4 | 75-125 | 0 | | | |
| 1,1-Dichloroethane | 19.92 | 1.0 | 20 | 0 | 99.6 | 70-135 | 0 | | | |
| 1,1-Dichloroethene | 22 | 1.0 | 20 | 0 | 110 | 70-130 | 0 | | | |
| 1,2,3-Trichloropropane | 17.54 | 1.0 | 20 | 0 | 87.7 | 75-125 | 0 | | | |
| 1,2,4-Trichlorobenzene | 17 | 1.0 | 20 | 0 | 85 | 65-135 | 0 | | | |
| 1,2,4-Trimethylbenzene | 17.94 | 1.0 | 20 | 0 | 89.7 | 75-130 | 0 | | | |
| 1,2-Dibromo-3-chloropropane | 16.16 | 1.0 | 20 | 0 | 80.8 | 50-130 | 0 | | | |
| 1,2-Dibromoethane | 17.52 | 1.0 | 20 | 0 | 87.6 | 80-120 | 0 | | | |
| 1,2-Dichlorobenzene | 16.77 | 1.0 | 20 | 0 | 83.8 | 70-120 | 0 | | | |
| 1,2-Dichloroethane | 20.28 | 1.0 | 20 | 0 | 101 | 70-130 | 0 | | | |
| 1,2-Dichloropropane | 19.64 | 2.0 | 20 | 0 | 98.2 | 75-125 | 0 | | | |
| 1,3,5-Trimethylbenzene | 18.64 | 1.0 | 20 | 0 | 93.2 | 75-130 | 0 | | | |
| 1,3-Dichlorobenzene | 16.84 | 2.0 | 20 | 0 | 84.2 | 75-125 | 0 | | | |
| 1,4-Dichlorobenzene | 16.66 | 2.0 | 20 | 0 | 83.3 | 75-125 | 0 | | | |
| 2-Butanone | 16.4 | 5.0 | 20 | 0 | 82 | 30-150 | 0 | | | |
| 2-Hexanone | 20.26 | 5.0 | 20 | 0 | 101 | 55-130 | 0 | | | |
| 4-Methyl-2-pentanone | 20.21 | 5.0 | 20 | 0 | 101 | 60-135 | 0 | | | |
| Acetone | 15.32 | 20 | 20 | 0 | 76.6 | 40-140 | 0 | | | J |
| Acrylonitrile | 16.96 | 1.0 | 20 | 0 | 84.8 | 70-135 | 0 | | | |
| Benzene | 20.69 | 1.0 | 20 | 0 | 103 | 80-120 | 0 | | | |
| Bromochloromethane | 19.72 | 1.0 | 20 | 0 | 98.6 | 65-130 | 0 | | | |
| Bromodichloromethane | 19.61 | 1.0 | 20 | 0 | 98 | 75-120 | 0 | | | |
| Bromomethane | 20.97 | 1.0 | 20 | 0 | 105 | 30-145 | 0 | | | |
| Carbon disulfide | 23.94 | 2.5 | 20 | 0 | 120 | 35-165 | 0 | | | |
| Carbon tetrachloride | 22.23 | 1.0 | 20 | 0 | 111 | 65-140 | 0 | | | |
| Chlorobenzene | 17.94 | 1.0 | 20 | 0 | 89.7 | 80-120 | 0 | | | |
| Chloroethane | 21.18 | 1.0 | 20 | 0 | 106 | 60-135 | 0 | | | |
| Chloroform | 19.81 | 1.0 | 20 | 0 | 99 | 65-135 | 0 | | | |
| Chloromethane | 19.55 | 1.0 | 20 | 0 | 97.8 | 70-125 | 0 | | | |
| cis-1,2-Dichloroethene | 19.03 | 1.0 | 20 | 0 | 95.2 | 70-125 | 0 | | | |
| cis-1,3-Dichloropropene | 18.33 | 1.0 | 20 | 0 | 91.6 | 70-130 | 0 | | | |
| Dibromochloromethane | 16.56 | 1.0 | 20 | 0 | 82.8 | 60-135 | 0 | | | |
| Dibromomethane | 18.25 | 1.0 | 20 | 0 | 91.2 | 75-125 | 0 | | | |
| Dichlorodifluoromethane | 14.62 | 1.0 | 20 | 0 | 73.1 | 30-155 | 0 | | | |
| Ethylbenzene | 19.04 | 1.0 | 20 | 0 | 95.2 | 75-125 | 0 | | | |
| Hexachloroethane | 17.26 | 1.0 | 20 | 0 | 86.3 | 70-135 | 0 | | | |
| Isopropylbenzene | 19.11 | 1.0 | 20 | 0 | 95.6 | 75-125 | 0 | | | |
| m,p-Xylene | 36.67 | 2.0 | 40 | 0 | 91.7 | 75-130 | 0 | | | |
| Methyl iodide | 22.53 | 5.0 | 20 | 0 | 113 | 70-135 | 0 | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

# QC BATCH REPORT

Batch ID: **R116086A** Instrument ID **VMS5** Method: **SW8260**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 20.97 | 5.0 | 20 | 0 | 105 | 65-125 | 0 |
| Naphthalene | 16.33 | 5.0 | 20 | 0 | 81.6 | 55-140 | 0 |
| n-Propylbenzene | 18.72 | 1.0 | 20 | 0 | 93.6 | 70-130 | 0 |
| o-Xylene | 18.33 | 1.0 | 20 | 0 | 91.6 | 80-120 | 0 |
| Styrene | 17.58 | 1.0 | 20 | 0 | 87.9 | 65-135 | 0 |
| Tetrachloroethene | 18.92 | 2.0 | 20 | 0 | 94.6 | 45-150 | 0 |
| Toluene | 18.07 | 1.0 | 20 | 0 | 90.4 | 75-120 | 0 |
| trans-1,2-Dichloroethene | 20.46 | 1.0 | 20 | 0 | 102 | 60-140 | 0 |
| trans-1,3-Dichloropropene | 16.43 | 1.0 | 20 | 0 | 82.2 | 55-140 | 0 |
| trans-1,4-Dichloro-2-butene | 15.04 | 5.0 | 20 | 0 | 75.2 | 70-135 | 0 |
| Trichloroethene | 19.19 | 1.0 | 20 | 0 | 96 | 70-125 | 0 |
| Trichlorofluoromethane | 21.64 | 1.0 | 20 | 0 | 108 | 60-145 | 0 |
| Vinyl chloride | 20.57 | 1.0 | 20 | 0 | 103 | 50-145 | 0 |
| Xylenes, Total | 55 | 3.0 | 60 | 0 | 91.7 | 75-130 | 0 |
| *Surr: 1,2-Dichloroethane-d4* | *19.36* | 0 | *20* | 0 | *96.8* | *70-120* | 0 |
| *Surr: 4-Bromofluorobenzene* | *21.05* | 0 | *20* | 0 | *105* | *75-120* | 0 |
| *Surr: Dibromofluoromethane* | *19.85* | 0 | *20* | 0 | *99.2* | *85-115* | 0 |
| *Surr: Toluene-d8* | *18.16* | 0 | *20* | 0 | *90.8* | *85-120* | 0 |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302260
**Project:** Rock-Tenn 2/7/13

# QC BATCH REPORT

Batch ID: **R116086A** Instrument ID **VMS5** Method: **SW8260**

| **MSD** | Sample ID: **1302289-07A MSD** | | | | Units: **µg/L** | | | Analysis Date: **2/9/2013 08:42 AM** | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | | Run ID: **VMS5_130208B** | | | SeqNo: **2212480** | Prep Date: | | DF: **1** | | |

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 17.62 | 1.0 | 20 | 0 | 88.1 | 80-130 | 17.66 | 0.227 | 30 | |
| 1,1,1-Trichloroethane | 20.23 | 1.0 | 20 | 0 | 101 | 65-130 | 21.06 | 4.02 | 30 | |
| 1,1,2,2-Tetrachloroethane | 18.13 | 1.0 | 20 | 0 | 90.6 | 65-130 | 17.6 | 2.97 | 30 | |
| 1,1,2-Trichloroethane | 17.81 | 1.0 | 20 | 0 | 89 | 75-125 | 17.67 | 0.789 | 30 | |
| 1,1-Dichloroethane | 19.82 | 1.0 | 20 | 0 | 99.1 | 70-135 | 19.92 | 0.503 | 30 | |
| 1,1-Dichloroethene | 22.31 | 1.0 | 20 | 0 | 112 | 70-130 | 22 | 1.4 | 30 | |
| 1,2,3-Trichloropropane | 18.72 | 1.0 | 20 | 0 | 93.6 | 75-125 | 17.54 | 6.51 | 30 | |
| 1,2,4-Trichlorobenzene | 18.42 | 1.0 | 20 | 0 | 92.1 | 65-135 | 17 | 8.02 | 30 | |
| 1,2,4-Trimethylbenzene | 18.51 | 1.0 | 20 | 0 | 92.6 | 75-130 | 17.94 | 3.13 | 30 | |
| 1,2-Dibromo-3-chloropropane | 15.67 | 1.0 | 20 | 0 | 78.4 | 50-130 | 16.16 | 3.08 | 30 | |
| 1,2-Dibromoethane | 18.11 | 1.0 | 20 | 0 | 90.6 | 80-120 | 17.52 | 3.31 | 30 | |
| 1,2-Dichlorobenzene | 17.17 | 1.0 | 20 | 0 | 85.8 | 70-120 | 16.77 | 2.36 | 30 | |
| 1,2-Dichloroethane | 19.46 | 1.0 | 20 | 0 | 97.3 | 70-130 | 20.28 | 4.13 | 30 | |
| 1,2-Dichloropropane | 19.23 | 2.0 | 20 | 0 | 96.2 | 75-125 | 19.64 | 2.11 | 30 | |
| 1,3,5-Trimethylbenzene | 19.52 | 1.0 | 20 | 0 | 97.6 | 75-130 | 18.64 | 4.61 | 30 | |
| 1,3-Dichlorobenzene | 17.45 | 2.0 | 20 | 0 | 87.2 | 75-125 | 16.84 | 3.56 | 30 | |
| 1,4-Dichlorobenzene | 17.25 | 2.0 | 20 | 0 | 86.2 | 75-125 | 16.66 | 3.48 | 30 | |
| 2-Butanone | 16.27 | 5.0 | 20 | 0 | 81.4 | 30-150 | 16.4 | 0.796 | 30 | |
| 2-Hexanone | 20.09 | 5.0 | 20 | 0 | 100 | 55-130 | 20.26 | 0.843 | 30 | |
| 4-Methyl-2-pentanone | 19.22 | 5.0 | 20 | 0 | 96.1 | 60-135 | 20.21 | 5.02 | 30 | |
| Acetone | 17.33 | 20 | 20 | 0 | 86.6 | 40-140 | 15.32 | 0 | 30 | J |
| Acrylonitrile | 18.1 | 1.0 | 20 | 0 | 90.5 | 70-135 | 16.96 | 6.5 | 30 | |
| Benzene | 20.63 | 1.0 | 20 | 0 | 103 | 80-120 | 20.69 | 0.29 | 30 | |
| Bromochloromethane | 19.77 | 1.0 | 20 | 0 | 98.8 | 65-130 | 19.72 | 0.253 | 30 | |
| Bromodichloromethane | 19.06 | 1.0 | 20 | 0 | 95.3 | 75-120 | 19.61 | 2.84 | 30 | |
| Bromomethane | 22.64 | 1.0 | 20 | 0 | 113 | 30-145 | 20.97 | 7.66 | 30 | |
| Carbon disulfide | 23.55 | 2.5 | 20 | 0 | 118 | 35-165 | 23.94 | 1.64 | 30 | |
| Carbon tetrachloride | 21.26 | 1.0 | 20 | 0 | 106 | 65-140 | 22.23 | 4.46 | 30 | |
| Chlorobenzene | 17.91 | 1.0 | 20 | 0 | 89.6 | 80-120 | 17.94 | 0.167 | 30 | |
| Chloroethane | 20.86 | 1.0 | 20 | 0 | 104 | 60-135 | 21.18 | 1.52 | 30 | |
| Chloroform | 20.1 | 1.0 | 20 | 0 | 100 | 65-135 | 19.81 | 1.45 | 30 | |
| Chloromethane | 19.5 | 1.0 | 20 | 0 | 97.5 | 70-125 | 19.55 | 0.256 | 30 | |
| cis-1,2-Dichloroethene | 19.65 | 1.0 | 20 | 0 | 98.2 | 70-125 | 19.03 | 3.21 | 30 | |
| cis-1,3-Dichloropropene | 18.12 | 1.0 | 20 | 0 | 90.6 | 70-130 | 18.33 | 1.15 | 30 | |
| Dibromochloromethane | 16.46 | 1.0 | 20 | 0 | 82.3 | 60-135 | 16.56 | 0.606 | 30 | |
| Dibromomethane | 18.19 | 1.0 | 20 | 0 | 91 | 75-125 | 18.25 | 0.329 | 30 | |
| Dichlorodifluoromethane | 14.7 | 1.0 | 20 | 0 | 73.5 | 30-155 | 14.62 | 0.546 | 30 | |
| Ethylbenzene | 19.19 | 1.0 | 20 | 0 | 96 | 75-125 | 19.04 | 0.785 | 30 | |
| Hexachloroethane | 17.53 | 1.0 | 20 | 0 | 87.6 | 70-135 | 17.26 | 1.55 | 30 | |
| Isopropylbenzene | 19.76 | 1.0 | 20 | 0 | 98.8 | 75-125 | 19.11 | 3.34 | 30 | |
| m,p-Xylene | 36.98 | 2.0 | 40 | 0 | 92.4 | 75-130 | 36.67 | 0.842 | 30 | |
| Methyl iodide | 21.71 | 5.0 | 20 | 0 | 109 | 70-135 | 22.53 | 3.71 | 30 | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

# QC BATCH REPORT

Batch ID: **R116086A** Instrument ID **VMS5** Method: **SW8260**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 21.67 | 5.0 | 20 | 0 | 108 | 65-125 | 20.97 | 3.28 | 30 |
| Naphthalene | 16.89 | 5.0 | 20 | 0 | 84.4 | 55-140 | 16.33 | 3.37 | 30 |
| n-Propylbenzene | 19.5 | 1.0 | 20 | 0 | 97.5 | 70-130 | 18.72 | 4.08 | 30 |
| o-Xylene | 18.76 | 1.0 | 20 | 0 | 93.8 | 80-120 | 18.33 | 2.32 | 30 |
| Styrene | 17.92 | 1.0 | 20 | 0 | 89.6 | 65-135 | 17.58 | 1.92 | 30 |
| Tetrachloroethene | 19.43 | 2.0 | 20 | 0 | 97.2 | 45-150 | 18.92 | 2.66 | 30 |
| Toluene | 18.16 | 1.0 | 20 | 0 | 90.8 | 75-120 | 18.07 | 0.497 | 30 |
| trans-1,2-Dichloroethene | 20.58 | 1.0 | 20 | 0 | 103 | 60-140 | 20.46 | 0.585 | 30 |
| trans-1,3-Dichloropropene | 16.01 | 1.0 | 20 | 0 | 80 | 55-140 | 16.43 | 2.59 | 30 |
| trans-1,4-Dichloro-2-butene | 14.86 | 5.0 | 20 | 0 | 74.3 | 70-135 | 15.04 | 1.2 | 30 |
| Trichloroethene | 19.11 | 1.0 | 20 | 0 | 95.6 | 70-125 | 19.19 | 0.418 | 30 |
| Trichlorofluoromethane | 21.61 | 1.0 | 20 | 0 | 108 | 60-145 | 21.64 | 0.139 | 30 |
| Vinyl chloride | 20.33 | 1.0 | 20 | 0 | 102 | 50-145 | 20.57 | 1.17 | 30 |
| Xylenes, Total | 55.74 | 3.0 | 60 | 0 | 92.9 | 75-130 | 55 | 1.34 | 30 |
| *Surr: 1,2-Dichloroethane-d4* | *18.86* | 0 | *20* | 0 | *94.3* | *70-120* | 19.36 | *2.62* | *30* |
| *Surr: 4-Bromofluorobenzene* | *21.51* | 0 | *20* | 0 | *108* | *75-120* | 21.05 | *2.16* | *30* |
| *Surr: Dibromofluoromethane* | *19.78* | 0 | *20* | 0 | *98.9* | *85-115* | 19.85 | *0.353* | *30* |
| *Surr: Toluene-d8* | *18.42* | 0 | *20* | 0 | *92.1* | *85-120* | 18.16 | *1.42* | *30* |

**The following samples were analyzed in this batch:**

| | | |
|---|---|---|
| 1302260-02A | 1302260-03A | 1302260-05A |
| 1302260-06A | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302260
**Project:** Rock-Tenn 2/7/13

# QC BATCH REPORT

Batch ID: **R116087A** Instrument ID **VMS7** Method: **SW8260**

**MBLK** Sample ID: **VBLKW2-130208-R116087A** Units: **µg/L** Analysis Date: **2/9/2013 03:54 AM**
Client ID: Run ID: **VMS7_130208B** SeqNo: **2212159** Prep Date: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 1.0 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 1.0 | | | | | | | | |
| 1,1-Dichloroethane | ND | 1.0 | | | | | | | | |
| 1,1-Dichloroethene | ND | 1.0 | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 1.0 | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | | | | | | | | |
| 1,2-Dibromoethane | ND | 1.0 | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 1.0 | | | | | | | | |
| 1,2-Dichloroethane | ND | 1.0 | | | | | | | | |
| 1,2-Dichloropropane | ND | 2.0 | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 2.0 | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 2.0 | | | | | | | | |
| 2-Butanone | ND | 5.0 | | | | | | | | |
| 2-Hexanone | ND | 5.0 | | | | | | | | |
| 2-Methylnaphthalene | ND | 10 | | | | | | | | |
| 4-Methyl-2-pentanone | ND | 5.0 | | | | | | | | |
| Acetone | ND | 20 | | | | | | | | |
| Acrylonitrile | ND | 1.0 | | | | | | | | |
| Benzene | ND | 1.0 | | | | | | | | |
| Bromochloromethane | ND | 1.0 | | | | | | | | |
| Bromodichloromethane | ND | 1.0 | | | | | | | | |
| Bromomethane | ND | 1.0 | | | | | | | | |
| Carbon disulfide | ND | 2.5 | | | | | | | | |
| Carbon tetrachloride | ND | 1.0 | | | | | | | | |
| Chlorobenzene | ND | 1.0 | | | | | | | | |
| Chloroethane | ND | 1.0 | | | | | | | | |
| Chloroform | ND | 1.0 | | | | | | | | |
| Chloromethane | ND | 1.0 | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 1.0 | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 1.0 | | | | | | | | |
| Dibromochloromethane | ND | 1.0 | | | | | | | | |
| Dibromomethane | ND | 1.0 | | | | | | | | |
| Dichlorodifluoromethane | ND | 1.0 | | | | | | | | |
| Diethyl ether | ND | 10 | | | | | | | | |
| Ethylbenzene | ND | 1.0 | | | | | | | | |
| Hexachloroethane | ND | 1.0 | | | | | | | | |
| Isopropylbenzene | ND | 1.0 | | | | | | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

# QC BATCH REPORT

Batch ID: **R116087A** Instrument ID **VMS7** Method: **SW8260**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| m,p-Xylene | ND | 2.0 | | | | | | |
| Methyl iodide | ND | 5.0 | | | | | | |
| Methyl tert-butyl ether | ND | 5.0 | | | | | | |
| Naphthalene | 0.65 | 5.0 | | | | | | J |
| n-Propylbenzene | ND | 1.0 | | | | | | |
| o-Xylene | ND | 1.0 | | | | | | |
| Styrene | ND | 1.0 | | | | | | |
| Tetrachloroethene | ND | 2.0 | | | | | | |
| Toluene | ND | 1.0 | | | | | | |
| trans-1,2-Dichloroethene | ND | 1.0 | | | | | | |
| trans-1,3-Dichloropropene | ND | 1.0 | | | | | | |
| trans-1,4-Dichloro-2-butene | ND | 5.0 | | | | | | |
| Trichloroethene | ND | 1.0 | | | | | | |
| Trichlorofluoromethane | ND | 1.0 | | | | | | |
| Vinyl acetate | ND | 1.0 | | | | | | |
| Vinyl chloride | ND | 1.0 | | | | | | |
| Xylenes, Total | ND | 3.0 | | | | | | |
| *Surr: 1,2-Dichloroethane-d4* | *17.23* | 0 | *20* | 0 | *86.2* | *70-120* | 0 | |
| *Surr: 4-Bromofluorobenzene* | *20.59* | 0 | *20* | 0 | *103* | *75-120* | 0 | |
| *Surr: Dibromofluoromethane* | *18.37* | 0 | *20* | 0 | *91.8* | *85-115* | 0 | |
| *Surr: Toluene-d8* | *18.48* | 0 | *20* | 0 | *92.4* | *85-120* | 0 | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302260
**Project:** Rock-Tenn 2/7/13

# QC BATCH REPORT

Batch ID: **R116087A** Instrument ID **VMS7** Method: **SW8260**

**LCS** Sample ID: **VLCSW2-130208-R116087A** Units: **µg/L** Analysis Date: **2/9/2013 03:02 AM**
Client ID: Run ID: **VMS7_130208B** SeqNo: **2212158** Prep Date: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 19.44 | 1.0 | 20 | 0 | 97.2 | 80-130 | 0 | | | |
| 1,1,1-Trichloroethane | 20.35 | 1.0 | 20 | 0 | 102 | 65-130 | 0 | | | |
| 1,1,2,2-Tetrachloroethane | 19.23 | 1.0 | 20 | 0 | 96.2 | 65-130 | 0 | | | |
| 1,1,2-Trichloroethane | 18.03 | 1.0 | 20 | 0 | 90.2 | 75-125 | 0 | | | |
| 1,1-Dichloroethane | 19.42 | 1.0 | 20 | 0 | 97.1 | 70-135 | 0 | | | |
| 1,1-Dichloroethene | 21.2 | 1.0 | 20 | 0 | 106 | 70-130 | 0 | | | |
| 1,2,3-Trichloropropane | 19.7 | 1.0 | 20 | 0 | 98.5 | 75-125 | 0 | | | |
| 1,2,4-Trichlorobenzene | 19.01 | 1.0 | 20 | 0 | 95 | 65-135 | 0 | | | |
| 1,2,4-Trimethylbenzene | 19.71 | 1.0 | 20 | 0 | 98.6 | 75-130 | 0 | | | |
| 1,2-Dibromo-3-chloropropane | 18.78 | 1.0 | 20 | 0 | 93.9 | 50-130 | 0 | | | |
| 1,2-Dibromoethane | 19.5 | 1.0 | 20 | 0 | 97.5 | 80-120 | 0 | | | |
| 1,2-Dichlorobenzene | 18.65 | 1.0 | 20 | 0 | 93.2 | 70-120 | 0 | | | |
| 1,2-Dichloroethane | 19.86 | 1.0 | 20 | 0 | 99.3 | 70-130 | 0 | | | |
| 1,2-Dichloropropane | 19.08 | 2.0 | 20 | 0 | 95.4 | 75-125 | 0 | | | |
| 1,3,5-Trimethylbenzene | 19.63 | 1.0 | 20 | 0 | 98.2 | 75-130 | 0 | | | |
| 1,3-Dichlorobenzene | 18.5 | 2.0 | 20 | 0 | 92.5 | 75-125 | 0 | | | |
| 1,4-Dichlorobenzene | 18.46 | 2.0 | 20 | 0 | 92.3 | 75-125 | 0 | | | |
| 2-Butanone | 21.73 | 5.0 | 20 | 0 | 109 | 30-150 | 0 | | | |
| 2-Hexanone | 20.31 | 5.0 | 20 | 0 | 102 | 55-130 | 0 | | | |
| 4-Methyl-2-pentanone | 25.84 | 5.0 | 20 | 0 | 129 | 60-135 | 0 | | | |
| Acetone | 22.56 | 20 | 20 | 0 | 113 | 40-140 | 0 | | | |
| Acrylonitrile | 20.03 | 1.0 | 20 | 0 | 100 | 70-135 | 0 | | | |
| Benzene | 19.63 | 1.0 | 20 | 0 | 98.2 | 80-120 | 0 | | | |
| Bromochloromethane | 19.65 | 1.0 | 20 | 0 | 98.2 | 65-130 | 0 | | | |
| Bromodichloromethane | 19.49 | 1.0 | 20 | 0 | 97.4 | 75-120 | 0 | | | |
| Bromomethane | 17.46 | 1.0 | 20 | 0 | 87.3 | 30-145 | 0 | | | |
| Carbon disulfide | 21.82 | 2.5 | 20 | 0 | 109 | 35-165 | 0 | | | |
| Carbon tetrachloride | 22.43 | 1.0 | 20 | 0 | 112 | 65-140 | 0 | | | |
| Chlorobenzene | 19.07 | 1.0 | 20 | 0 | 95.4 | 80-120 | 0 | | | |
| Chloroethane | 17.76 | 1.0 | 20 | 0 | 88.8 | 60-135 | 0 | | | |
| Chloroform | 19.62 | 1.0 | 20 | 0 | 98.1 | 65-135 | 0 | | | |
| Chloromethane | 15.7 | 1.0 | 20 | 0 | 78.5 | 70-125 | 0 | | | |
| cis-1,2-Dichloroethene | 19.15 | 1.0 | 20 | 0 | 95.8 | 70-125 | 0 | | | |
| cis-1,3-Dichloropropene | 19.27 | 1.0 | 20 | 0 | 96.4 | 70-130 | 0 | | | |
| Dibromochloromethane | 17.93 | 1.0 | 20 | 0 | 89.6 | 60-135 | 0 | | | |
| Dibromomethane | 19.85 | 1.0 | 20 | 0 | 99.2 | 75-125 | 0 | | | |
| Dichlorodifluoromethane | 15.82 | 1.0 | 20 | 0 | 79.1 | 30-155 | 0 | | | |
| Ethylbenzene | 19.54 | 1.0 | 20 | 0 | 97.7 | 75-125 | 0 | | | |
| Hexachloroethane | 16.3 | 1.0 | 20 | 0 | 81.5 | 70-135 | 0 | | | |
| Isopropylbenzene | 19.67 | 1.0 | 20 | 0 | 98.4 | 75-125 | 0 | | | |
| m,p-Xylene | 39.16 | 2.0 | 40 | 0 | 97.9 | 75-130 | 0 | | | |
| Methyl iodide | 25.24 | 5.0 | 20 | 0 | 126 | 70-135 | 0 | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

# QC BATCH REPORT

Batch ID: **R116087A** Instrument ID **VMS7** Method: **SW8260**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 21.36 | 5.0 | 20 | 0 | 107 | 65-125 | 0 |
| Naphthalene | 19.49 | 5.0 | 20 | 0 | 97.4 | 55-140 | 0 |
| n-Propylbenzene | 19.51 | 1.0 | 20 | 0 | 97.6 | 70-130 | 0 |
| o-Xylene | 19.72 | 1.0 | 20 | 0 | 98.6 | 80-120 | 0 |
| Styrene | 20.55 | 1.0 | 20 | 0 | 103 | 65-135 | 0 |
| Tetrachloroethene | 19.46 | 2.0 | 20 | 0 | 97.3 | 45-150 | 0 |
| Toluene | 18.97 | 1.0 | 20 | 0 | 94.8 | 75-120 | 0 |
| trans-1,2-Dichloroethene | 20.36 | 1.0 | 20 | 0 | 102 | 60-140 | 0 |
| trans-1,3-Dichloropropene | 18.28 | 1.0 | 20 | 0 | 91.4 | 55-140 | 0 |
| trans-1,4-Dichloro-2-butene | 17.36 | 5.0 | 20 | 0 | 86.8 | 70-135 | 0 |
| Trichloroethene | 19.99 | 1.0 | 20 | 0 | 100 | 70-125 | 0 |
| Trichlorofluoromethane | 21.67 | 1.0 | 20 | 0 | 108 | 60-145 | 0 |
| Vinyl chloride | 18.29 | 1.0 | 20 | 0 | 91.4 | 50-145 | 0 |
| Xylenes, Total | 58.88 | 3.0 | 60 | 0 | 98.1 | 75-130 | 0 |
| *Surr: 1,2-Dichloroethane-d4* | *17.24* | 0 | *20* | 0 | *86.2* | *70-120* | 0 |
| *Surr: 4-Bromofluorobenzene* | *21.06* | 0 | *20* | 0 | *105* | *75-120* | 0 |
| *Surr: Dibromofluoromethane* | *18.44* | 0 | *20* | 0 | *92.2* | *85-115* | 0 |
| *Surr: Toluene-d8* | *18.09* | 0 | *20* | 0 | *90.4* | *85-120* | 0 |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302260
**Project:** Rock-Tenn 2/7/13

# QC BATCH REPORT

Batch ID: **R116087A** Instrument ID **VMS7** Method: **SW8260**

**MS** Sample ID: **1302260-01A MS** Units: **µg/L** Analysis Date: **2/9/2013 01:14 PM**
Client ID: **RT-GB-8W** Run ID: **VMS7_130208B** SeqNo: **2212424** Prep Date: DF: **1**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 16.06 | 1.0 | 20 | 0 | 80.3 | 80-130 | 0 | | | |
| 1,1,1-Trichloroethane | 18.78 | 1.0 | 20 | 0 | 93.9 | 65-130 | 0 | | | |
| 1,1,2,2-Tetrachloroethane | 17.44 | 1.0 | 20 | 0 | 87.2 | 65-130 | 0 | | | |
| 1,1,2-Trichloroethane | 16.67 | 1.0 | 20 | 0 | 83.4 | 75-125 | 0 | | | |
| 1,1-Dichloroethane | 19.1 | 1.0 | 20 | 0 | 95.5 | 70-135 | 0 | | | |
| 1,1-Dichloroethene | 20.42 | 1.0 | 20 | 0 | 102 | 70-130 | 0 | | | |
| 1,2,3-Trichloropropane | 17.78 | 1.0 | 20 | 0 | 88.9 | 75-125 | 0 | | | |
| 1,2,4-Trichlorobenzene | 15.86 | 1.0 | 20 | 0 | 79.3 | 65-135 | 0 | | | |
| 1,2,4-Trimethylbenzene | 16.34 | 1.0 | 20 | 0 | 81.7 | 75-130 | 0 | | | |
| 1,2-Dibromo-3-chloropropane | 14.99 | 1.0 | 20 | 0 | 75 | 50-130 | 0 | | | |
| 1,2-Dibromoethane | 17.4 | 1.0 | 20 | 0 | 87 | 80-120 | 0 | | | |
| 1,2-Dichlorobenzene | 16.96 | 1.0 | 20 | 0 | 84.8 | 70-120 | 0 | | | |
| 1,2-Dichloroethane | 18.67 | 1.0 | 20 | 0 | 93.4 | 70-130 | 0 | | | |
| 1,2-Dichloropropane | 17.84 | 2.0 | 20 | 0 | 89.2 | 75-125 | 0 | | | |
| 1,3,5-Trimethylbenzene | 16.4 | 1.0 | 20 | 0 | 82 | 75-130 | 0 | | | |
| 1,3-Dichlorobenzene | 16.55 | 2.0 | 20 | 0 | 82.8 | 75-125 | 0 | | | |
| 1,4-Dichlorobenzene | 16.41 | 2.0 | 20 | 0 | 82 | 75-125 | 0 | | | |
| 2-Butanone | 20.29 | 5.0 | 20 | 0 | 101 | 30-150 | 0 | | | |
| 2-Hexanone | 19.5 | 5.0 | 20 | 0 | 97.5 | 55-130 | 0 | | | |
| 4-Methyl-2-pentanone | 24.22 | 5.0 | 20 | 0 | 121 | 60-135 | 0 | | | |
| Acetone | 24.39 | 20 | 20 | 0 | 122 | 40-140 | 0 | | | |
| Acrylonitrile | 18.62 | 1.0 | 20 | 0 | 93.1 | 70-135 | 0 | | | |
| Benzene | 18.47 | 1.0 | 20 | 0 | 92.4 | 80-120 | 0 | | | |
| Bromochloromethane | 18.65 | 1.0 | 20 | 0 | 93.2 | 65-130 | 0 | | | |
| Bromodichloromethane | 17.33 | 1.0 | 20 | 0 | 86.6 | 75-120 | 0 | | | |
| Bromomethane | 17.1 | 1.0 | 20 | 0 | 85.5 | 30-145 | 0 | | | |
| Carbon disulfide | 19.58 | 2.5 | 20 | 0 | 97.9 | 35-165 | 0 | | | |
| Carbon tetrachloride | 19.28 | 1.0 | 20 | 0 | 96.4 | 65-140 | 0 | | | |
| Chlorobenzene | 16.68 | 1.0 | 20 | 0 | 83.4 | 80-120 | 0 | | | |
| Chloroethane | 17.3 | 1.0 | 20 | 0 | 86.5 | 60-135 | 0 | | | |
| Chloroform | 19.22 | 1.0 | 20 | 0 | 96.1 | 65-135 | 0 | | | |
| Chloromethane | 16.14 | 1.0 | 20 | 0 | 80.7 | 70-125 | 0 | | | |
| cis-1,2-Dichloroethene | 17.77 | 1.0 | 20 | 0 | 88.8 | 70-125 | 0 | | | |
| cis-1,3-Dichloropropene | 16.56 | 1.0 | 20 | 0 | 82.8 | 70-130 | 0 | | | |
| Dibromochloromethane | 14.73 | 1.0 | 20 | 0 | 73.6 | 60-135 | 0 | | | |
| Dibromomethane | 18.38 | 1.0 | 20 | 0 | 91.9 | 75-125 | 0 | | | |
| Dichlorodifluoromethane | 14.43 | 1.0 | 20 | 0 | 72.2 | 30-155 | 0 | | | |
| Ethylbenzene | 16.97 | 1.0 | 20 | 0 | 84.8 | 75-125 | 0 | | | |
| Hexachloroethane | 12.21 | 1.0 | 20 | 0 | 61 | 70-135 | 0 | | | S |
| Isopropylbenzene | 16.37 | 1.0 | 20 | 0 | 81.8 | 75-125 | 0 | | | |
| m,p-Xylene | 33.29 | 2.0 | 40 | 0 | 83.2 | 75-130 | 0 | | | |
| Methyl iodide | 20.98 | 5.0 | 20 | 0 | 105 | 70-135 | 0 | | | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

# QC BATCH REPORT

Batch ID: **R116087A** Instrument ID **VMS7** Method: **SW8260**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 21.3 | 5.0 | 20 | 0 | 106 | 65-125 | 0 | |
| Naphthalene | 16.34 | 5.0 | 20 | 0 | 81.7 | 55-140 | 0 | |
| n-Propylbenzene | 15.85 | 1.0 | 20 | 0 | 79.2 | 70-130 | 0 | |
| o-Xylene | 17.1 | 1.0 | 20 | 0 | 85.5 | 80-120 | 0 | |
| Styrene | 17.59 | 1.0 | 20 | 0 | 88 | 65-135 | 0 | |
| Tetrachloroethene | 16.85 | 2.0 | 20 | 0 | 84.2 | 45-150 | 0 | |
| Toluene | 16.95 | 1.0 | 20 | 0 | 84.8 | 75-120 | 0 | |
| trans-1,2-Dichloroethene | 19.34 | 1.0 | 20 | 0 | 96.7 | 60-140 | 0 | |
| trans-1,3-Dichloropropene | 15.06 | 1.0 | 20 | 0 | 75.3 | 55-140 | 0 | |
| trans-1,4-Dichloro-2-butene | 12.28 | 5.0 | 20 | 0 | 61.4 | 70-135 | 0 | S |
| Trichloroethene | 17.96 | 1.0 | 20 | 0 | 89.8 | 70-125 | 0 | |
| Trichlorofluoromethane | 20.13 | 1.0 | 20 | 0 | 101 | 60-145 | 0 | |
| Vinyl chloride | 19.1 | 1.0 | 20 | 0 | 95.5 | 50-145 | 0 | |
| Xylenes, Total | 50.39 | 3.0 | 60 | 0 | 84 | 75-130 | 0 | |
| *Surr: 1,2-Dichloroethane-d4* | *17.08* | 0 | *20* | 0 | *85.4* | *70-120* | 0 | |
| *Surr: 4-Bromofluorobenzene* | *20.82* | 0 | *20* | 0 | *104* | *75-120* | 0 | |
| *Surr: Dibromofluoromethane* | *17.47* | 0 | *20* | 0 | *87.4* | *85-115* | 0 | |
| *Surr: Toluene-d8* | *17.57* | 0 | *20* | 0 | *87.8* | *85-120* | 0 | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302260
**Project:** Rock-Tenn 2/7/13

# QC BATCH REPORT

Batch ID: **R116087A** Instrument ID **VMS7** Method: **SW8260**

| **MSD** | Sample ID: **1302260-01A MSD** | | | | Units: **µg/L** | | | Analysis Date: **2/9/2013 01:41 PM** | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: **RT-GB-8W** | | Run ID: **VMS7_130208B** | | | SeqNo: **2212425** | | Prep Date: | | DF: **1** | |

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 16.34 | 1.0 | 20 | 0 | 81.7 | 80-130 | 16.06 | 1.73 | 30 | |
| 1,1,1-Trichloroethane | 19.25 | 1.0 | 20 | 0 | 96.2 | 65-130 | 18.78 | 2.47 | 30 | |
| 1,1,2,2-Tetrachloroethane | 16.91 | 1.0 | 20 | 0 | 84.6 | 65-130 | 17.44 | 3.09 | 30 | |
| 1,1,2-Trichloroethane | 16.24 | 1.0 | 20 | 0 | 81.2 | 75-125 | 16.67 | 2.61 | 30 | |
| 1,1-Dichloroethane | 18.87 | 1.0 | 20 | 0 | 94.4 | 70-135 | 19.1 | 1.21 | 30 | |
| 1,1-Dichloroethene | 20.08 | 1.0 | 20 | 0 | 100 | 70-130 | 20.42 | 1.68 | 30 | |
| 1,2,3-Trichloropropane | 17.2 | 1.0 | 20 | 0 | 86 | 75-125 | 17.78 | 3.32 | 30 | |
| 1,2,4-Trichlorobenzene | 16.17 | 1.0 | 20 | 0 | 80.8 | 65-135 | 15.86 | 1.94 | 30 | |
| 1,2,4-Trimethylbenzene | 16.25 | 1.0 | 20 | 0 | 81.2 | 75-130 | 16.34 | 0.552 | 30 | |
| 1,2-Dibromo-3-chloropropane | 14.77 | 1.0 | 20 | 0 | 73.8 | 50-130 | 14.99 | 1.48 | 30 | |
| 1,2-Dibromoethane | 17.48 | 1.0 | 20 | 0 | 87.4 | 80-120 | 17.4 | 0.459 | 30 | |
| 1,2-Dichlorobenzene | 16.72 | 1.0 | 20 | 0 | 83.6 | 70-120 | 16.96 | 1.43 | 30 | |
| 1,2-Dichloroethane | 18.6 | 1.0 | 20 | 0 | 93 | 70-130 | 18.67 | 0.376 | 30 | |
| 1,2-Dichloropropane | 18.31 | 2.0 | 20 | 0 | 91.6 | 75-125 | 17.84 | 2.6 | 30 | |
| 1,3,5-Trimethylbenzene | 16.5 | 1.0 | 20 | 0 | 82.5 | 75-130 | 16.4 | 0.608 | 30 | |
| 1,3-Dichlorobenzene | 16.19 | 2.0 | 20 | 0 | 81 | 75-125 | 16.55 | 2.2 | 30 | |
| 1,4-Dichlorobenzene | 16.35 | 2.0 | 20 | 0 | 81.8 | 75-125 | 16.41 | 0.366 | 30 | |
| 2-Butanone | 19.16 | 5.0 | 20 | 0 | 95.8 | 30-150 | 20.29 | 5.73 | 30 | |
| 2-Hexanone | 18.57 | 5.0 | 20 | 0 | 92.8 | 55-130 | 19.5 | 4.89 | 30 | |
| 4-Methyl-2-pentanone | 23.65 | 5.0 | 20 | 0 | 118 | 60-135 | 24.22 | 2.38 | 30 | |
| Acetone | 24.12 | 20 | 20 | 0 | 121 | 40-140 | 24.39 | 1.11 | 30 | |
| Acrylonitrile | 18.72 | 1.0 | 20 | 0 | 93.6 | 70-135 | 18.62 | 0.536 | 30 | |
| Benzene | 18.61 | 1.0 | 20 | 0 | 93 | 80-120 | 18.47 | 0.755 | 30 | |
| Bromochloromethane | 18.93 | 1.0 | 20 | 0 | 94.6 | 65-130 | 18.65 | 1.49 | 30 | |
| Bromodichloromethane | 17.49 | 1.0 | 20 | 0 | 87.4 | 75-120 | 17.33 | 0.919 | 30 | |
| Bromomethane | 17.3 | 1.0 | 20 | 0 | 86.5 | 30-145 | 17.1 | 1.16 | 30 | |
| Carbon disulfide | 19.69 | 2.5 | 20 | 0 | 98.4 | 35-165 | 19.58 | 0.56 | 30 | |
| Carbon tetrachloride | 19.09 | 1.0 | 20 | 0 | 95.4 | 65-140 | 19.28 | 0.99 | 30 | |
| Chlorobenzene | 16.85 | 1.0 | 20 | 0 | 84.2 | 80-120 | 16.68 | 1.01 | 30 | |
| Chloroethane | 17.93 | 1.0 | 20 | 0 | 89.6 | 60-135 | 17.3 | 3.58 | 30 | |
| Chloroform | 18.65 | 1.0 | 20 | 0 | 93.2 | 65-135 | 19.22 | 3.01 | 30 | |
| Chloromethane | 16.6 | 1.0 | 20 | 0 | 83 | 70-125 | 16.14 | 2.81 | 30 | |
| cis-1,2-Dichloroethene | 17.57 | 1.0 | 20 | 0 | 87.8 | 70-125 | 17.77 | 1.13 | 30 | |
| cis-1,3-Dichloropropene | 16.68 | 1.0 | 20 | 0 | 83.4 | 70-130 | 16.56 | 0.722 | 30 | |
| Dibromochloromethane | 14.96 | 1.0 | 20 | 0 | 74.8 | 60-135 | 14.73 | 1.55 | 30 | |
| Dibromomethane | 18.24 | 1.0 | 20 | 0 | 91.2 | 75-125 | 18.38 | 0.765 | 30 | |
| Dichlorodifluoromethane | 14.54 | 1.0 | 20 | 0 | 72.7 | 30-155 | 14.43 | 0.759 | 30 | |
| Ethylbenzene | 16.87 | 1.0 | 20 | 0 | 84.4 | 75-125 | 16.97 | 0.591 | 30 | |
| Hexachloroethane | 12.22 | 1.0 | 20 | 0 | 61.1 | 70-135 | 12.21 | 0.0819 | 30 | S |
| Isopropylbenzene | 16.47 | 1.0 | 20 | 0 | 82.4 | 75-125 | 16.37 | 0.609 | 30 | |
| m,p-Xylene | 33.42 | 2.0 | 40 | 0 | 83.6 | 75-130 | 33.29 | 0.39 | 30 | |
| Methyl iodide | 21.76 | 5.0 | 20 | 0 | 109 | 70-135 | 20.98 | 3.65 | 30 | |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ECT, Inc
**Work Order:** 1302260
**Project:** Rock-Tenn 2/7/13

# QC BATCH REPORT

Batch ID: **R116087A** Instrument ID **VMS7** Method: **SW8260**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 21.28 | 5.0 | 20 | 0 | 106 | 65-125 | 21.3 | 0.0939 | 30 | |
| Naphthalene | 16.52 | 5.0 | 20 | 0 | 82.6 | 55-140 | 16.34 | 1.1 | 30 | |
| n-Propylbenzene | 15.89 | 1.0 | 20 | 0 | 79.4 | 70-130 | 15.85 | 0.252 | 30 | |
| o-Xylene | 16.99 | 1.0 | 20 | 0 | 85 | 80-120 | 17.1 | 0.645 | 30 | |
| Styrene | 17.7 | 1.0 | 20 | 0 | 88.5 | 65-135 | 17.59 | 0.623 | 30 | |
| Tetrachloroethene | 16.68 | 2.0 | 20 | 0 | 83.4 | 45-150 | 16.85 | 1.01 | 30 | |
| Toluene | 16.93 | 1.0 | 20 | 0 | 84.6 | 75-120 | 16.95 | 0.118 | 30 | |
| trans-1,2-Dichloroethene | 19.62 | 1.0 | 20 | 0 | 98.1 | 60-140 | 19.34 | 1.44 | 30 | |
| trans-1,3-Dichloropropene | 15.36 | 1.0 | 20 | 0 | 76.8 | 55-140 | 15.06 | 1.97 | 30 | |
| trans-1,4-Dichloro-2-butene | 11.88 | 5.0 | 20 | 0 | 59.4 | 70-135 | 12.28 | 3.31 | 30 | S |
| Trichloroethene | 18.28 | 1.0 | 20 | 0 | 91.4 | 70-125 | 17.96 | 1.77 | 30 | |
| Trichlorofluoromethane | 20.32 | 1.0 | 20 | 0 | 102 | 60-145 | 20.13 | 0.939 | 30 | |
| Vinyl chloride | 18.96 | 1.0 | 20 | 0 | 94.8 | 50-145 | 19.1 | 0.736 | 30 | |
| Xylenes, Total | 50.41 | 3.0 | 60 | 0 | 84 | 75-130 | 50.39 | 0.0397 | 30 | |
| *Surr: 1,2-Dichloroethane-d4* | *16.91* | 0 | *20* | 0 | *84.6* | *70-120* | 17.08 | *1* | *30* | |
| *Surr: 4-Bromofluorobenzene* | *20.98* | 0 | *20* | 0 | *105* | *75-120* | 20.82 | *0.766* | *30* | |
| *Surr: Dibromofluoromethane* | *18.22* | 0 | *20* | 0 | *91.1* | *85-115* | 17.47 | *4.2* | *30* | |
| *Surr: Toluene-d8* | *17.85* | 0 | *20* | 0 | *89.2* | *85-120* | 17.57 | *1.58* | *30* | |

**The following samples were analyzed in this batch:** 1302260-01A 1302260-04A 1302260-07A

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Cincinnati, OH +1 513 733 5336
Everett, WA +1 425 356 2600
Fort Collins, CO +1 970 490 1511
Holland, MI +1 616 399 6070
Houston, TX +1 281 530 5656
Middletown, PA +1 717 944 5541
Spring City, PA +1 610 948 4903
Salt Lake City, UT +1 801 266 7700
South Charleston, WV +1 304 356 3168
York, PA +1 717 505 5280

# Chain of Custody Form

Page 1 of 1

COC ID: 70116

ALS Project Manager: | ALS Work Order #: 1302260

| Customer Information | | Project Information | | Parameter/Method Request for Analysis | |
|---|---|---|---|---|---|
| Purchase Order | | Project Name | Rock Tenn Site | A | MDEQ Plus Volatiles |
| Work Order | | Project Number | | B | TCL List Semi-Volatiles |
| Company Name | ECT, Inc | Bill To Company | ECT, Inc | C | MI 10 Metals Plus, B, Mg, Fe, Tl |
| Send Report To | John D'Addona | Invoice Attn | John D'Addona | D | PCBs |
| Address | 2200 Commonwealth Blvd Suite 300 | Address | 2200 Commonwealth Blvd Suite 300 | E | BTEX, TMBs -Light Distillate Oil |
| | | | | F | PNAs-Light Distillate Oil |
| City/State/Zip | Ann Arbor, MI 48105 | City/State/Zip | Ann Arbor, MI 48105 | G | % Moisture |
| Phone | (734) 769-3004 | Phone | (734) 769-3004 | H | This sample point needs MS/MSD |
| Fax | (734) 769-3164 | Fax | (734) 769-3164 | I | |
| e-Mail Address | | e-Mail Address | | J | |

| No. | Sample Description | Date | Time | Matrix | Pres. | # Bottles | A | B | C | D | E | F | G | H | I | J | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | RT-GB-8W | 2/7/13 | 0945 | water | 1,2 | 6 | | | | | | | | | | | |
| 2 | RT-GB-8W MS (-1) | | 0945 | | | | | | | | | | | | | | |
| 3 | RT-GB-8W MSD | | 0945 | | | | | | | | | | | | | | |
| 4 | RT-GB-9W (-2) | | 1155 | | | | | | | | | | | | | | |
| 5 | RT-GB-9W Dup (-3) | | 1155 | | | | | | | | | | | | | | |
| 6 | EB-1 (-4) | | 1400 | | | | | | | | | | | | | | |
| 7 | RT-GB-7W (-5) | | 1416 | | | | | | | | | | | | | | |
| 8 | RT-GB-6W (-6) | | 1530 | | | | | | | | | | | | | | |
| 9 | TRIP BLANK | 2/7/13 | | | | | X | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |

Sampler(s) Please Print & Sign: Jason Bartholomew Jason Bartholomew

Shipment Method: cooler

Required Turnaround Time: (Check Box) ☐ Std 10 WK Days ☑ 5 WK Days ☐ 2 WK Days ☐ 24 Hour ☐ Other _____

Results Due Date:

| | | | |
|---|---|---|---|
| Relinquished by: Jason Bartholomew | Date: 2/7/13 | Time: 1620 | Received by: |
| Relinquished by: | Date: 2/7/13 | Time: 1730 | Received by (Laboratory): |
| Logged by (Laboratory): KRW | Date: 2/8/13 | Time: 1015 | Checked by (Laboratory): |

Notes:

| Cooler ID | Cooler Temp. |
|---|---|
| | 3.6°C |

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP CheckList
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other _____

Preservative Key: 1-HCl 2-$HNO_3$ 3-$H_2SO_4$ 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

ALS Group USA, Corp

## Sample Receipt Checklist

Client Name: **ECT-AA** Date/Time Received: **07-Feb-13 17:30**

Work Order: **1302260** Received by: **KRW**

Checklist completed by Keith Wierenga (eSignature) 08-Feb-13 (Date) Reviewed by: Alex Csaszar (eSignature) 08-Feb-13 (Date)

Matrices: Water
Carrier name: ALSHN

| | | | |
|---|---|---|---|
| Shipping container/cooler in good condition? | Yes ☑ | No ☐ | Not Present ☐ |
| Custody seals intact on shipping container/cooler? | Yes ☐ | No ☐ | Not Present ☑ |
| Custody seals intact on sample bottles? | Yes ☐ | No ☐ | Not Present ☑ |
| Chain of custody present? | Yes ☑ | No ☐ | |
| Chain of custody signed when relinquished and received? | Yes ☑ | No ☐ | |
| Chain of custody agrees with sample labels? | Yes ☑ | No ☐ | |
| Samples in proper container/bottle? | Yes ☑ | No ☐ | |
| Sample containers intact? | Yes ☑ | No ☐ | |
| Sufficient sample volume for indicated test? | Yes ☑ | No ☐ | |
| All samples received within holding time? | Yes ☑ | No ☐ | |
| Container/Temp Blank temperature in compliance? | Yes ☑ | No ☐ | |
| Temperature(s)/Thermometer(s): | 3.6 C | | |
| Cooler(s)/Kit(s): | | | |
| Date/Time sample(s) sent to storage: | 2/8/2013 10:28:40 AM | | |
| Water - VOA vials have zero headspace? | Yes ☑ | No ☐ | No VOA vials submitted ☐ |
| Water - pH acceptable upon receipt? | Yes ☑ | No ☐ | N/A ☐ |
| pH adjusted? | Yes ☐ | No ☑ | N/A ☐ |
| pH adjusted by: | - | | |

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

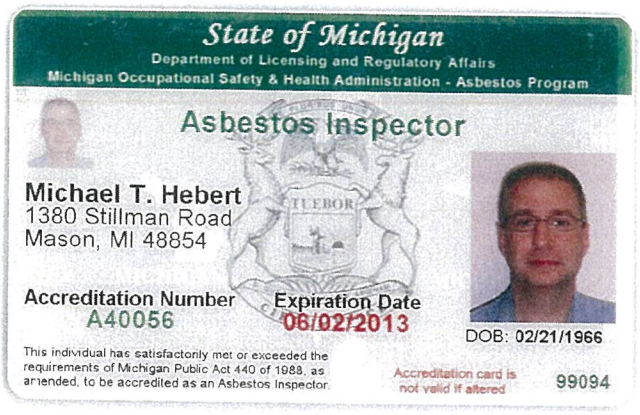
Contacted By: Regarding:

Comments:

CorrectiveAction:

# Appendix C

# Asbestos Inspectors Accreditation



State of Michigan
Department of Licensing and Regulatory Affairs
Michigan Occupational Safety & Health Administration - Asbestos Program

Asbestos Inspector

Michael T. Hebert
1380 Stillman Road
Mason, MI 48854

Accreditation Number
A40056

Expiration Date
06/02/2013

DOB: 02/21/1966

This individual has satisfactorily met or exceeded the requirements of Michigan Public Act 440 of 1988, as amended, to be accredited as an Asbestos Inspector.

Accreditation card is not valid if altered

99094



MICHIGAN MI USA

DRIVER LICENSE

H 163 603 784 136
DOB 02-21-1966
ISS 01-24-2012
EXP 02-21-2016
022166

MICHAEL T HEBERT
1380 STILLMAN RD
MASON, MI 48854-9430

Sex M
Hgt 510
Eyes BLU
Lic Type O
End NONE
Restrictions Corrective Lens

DD: 9003118231R10

Rev 01-21-2011

# Appendix D

# ACM Inspectors Photographic Log 2013

ECT

Environmental Consulting & Technology, Inc.

# Photograph Inspection Log 2013
# Otsego Paper Mill & Power Plants

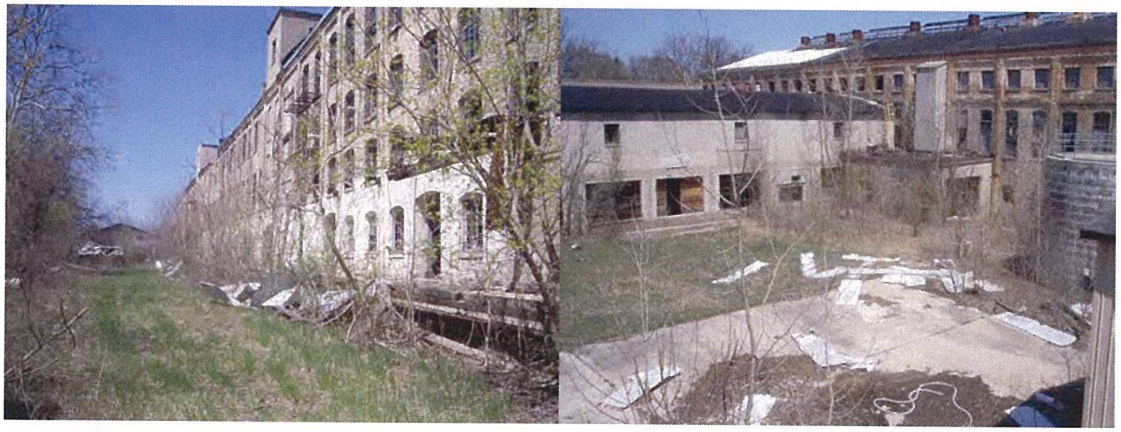
## General Photographs









## Buildings



A



B



C & D



E & F



G, H, & I



J & K





L & M



N



O



P & Q



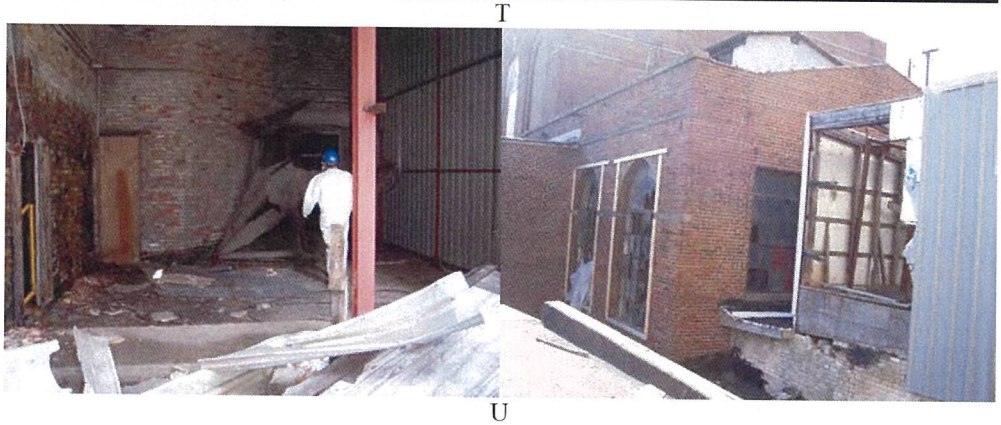
R



S



T



U



V & X



Y & W



Group Z



Power House




Generator Room – Power House



Power House



Power House

# Appendix E

# Field Building Diagrams

ECT

Environmental Consulting & Technology, Inc.

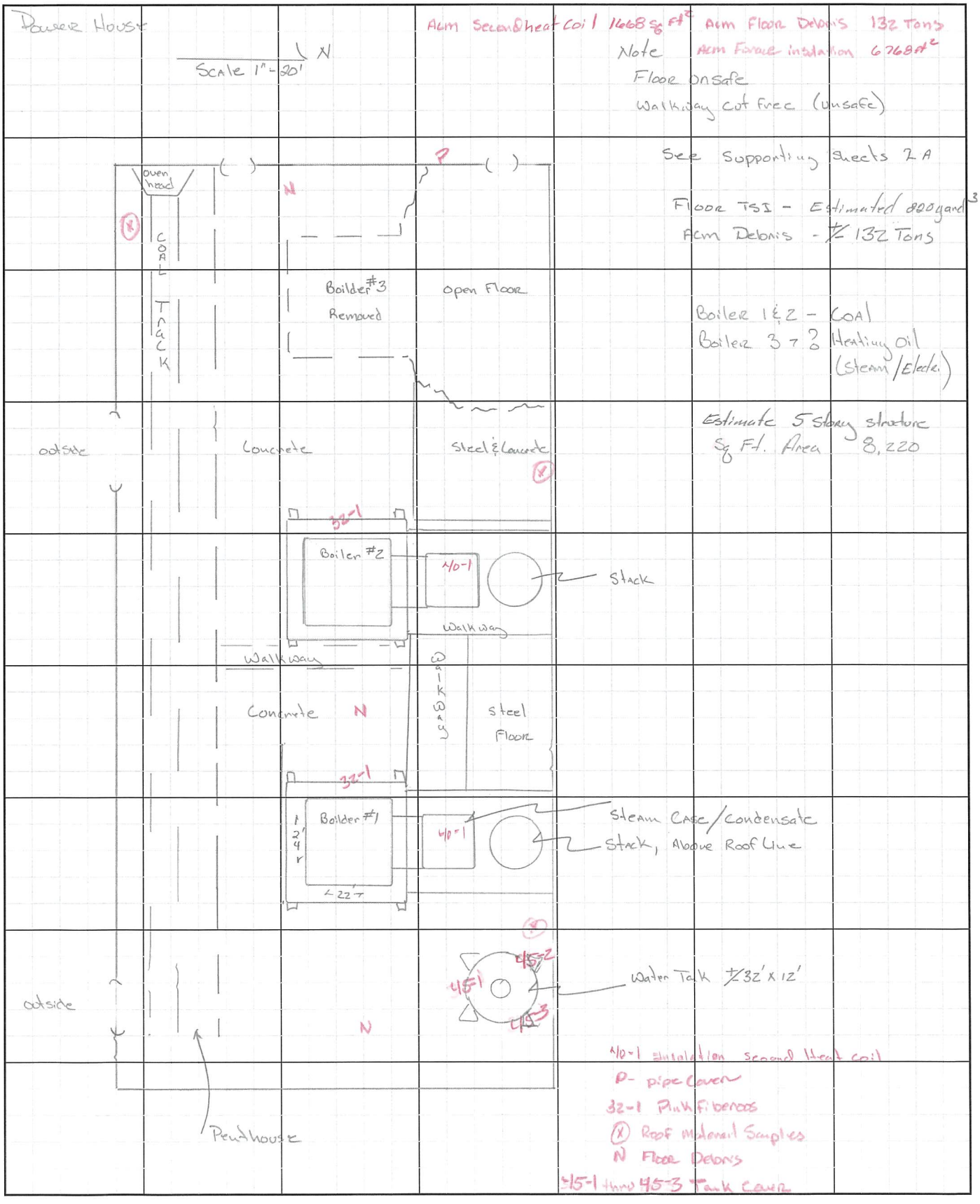
PROJECT Otsego Paper Mill PH 2A

PROJECT NO. 10-0925-1200

SHEET NO. 2 OF 6

CALCULATED BY MJH DATE 5-2-2013

CHECKED BY _____ DATE _____



ECT

Environmental Consulting & Technology, Inc.

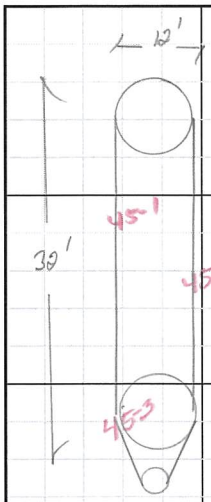
PROJECT Otsego Paper Mill PH2B

PROJECT NO. 10-0905-1200

SHEET NO. 3 OF 6

CALCULATED BY MMH DATE 5-2-2013

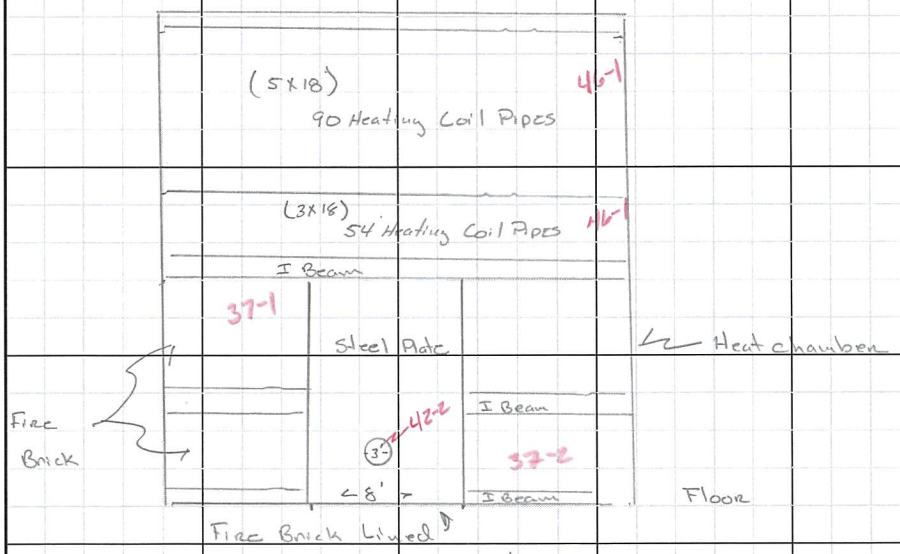
CHECKED BY _____ DATE _____




Water Tank
± 2897 Sq Ft
White Coating (Hole Supports Not Acm)

Acm Brick & Motor 245 Tons
Acm - Boiler/Steam gaskets 866 units
(See PH2B & PH2D)

Boilder 1 & 2
South Face




3312 Sq Ft (Total) PAcm

37-1 & 37-2 Fire Brick

42-2 Brick Motor
46-1 gaskets Pipe (steam Lines)
45-1 two 45-3 Tank Insulation

ECT

Environmental Consulting & Technology, Inc.

PROJECT Otsego Paper mill PH 2C

PROJECT NO. 10-0925 1200

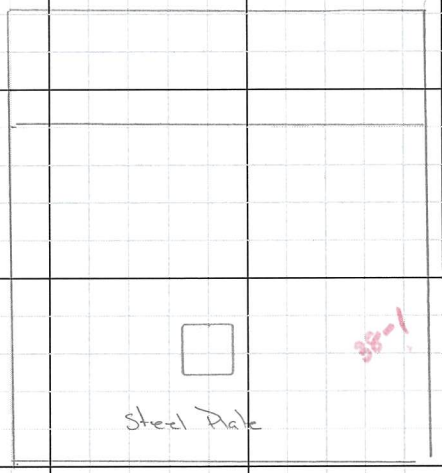
SHEET NO. 4 OF 6

CALCULATED BY MMH DATE 5-2-2013

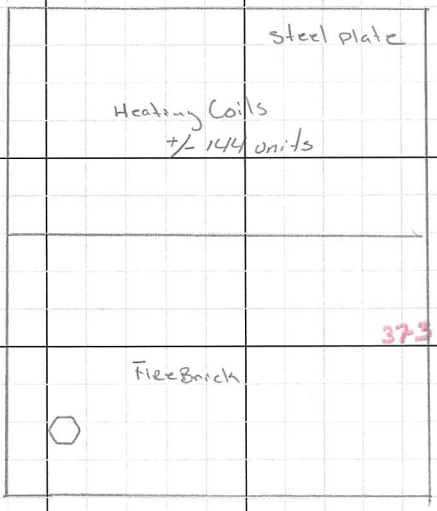
CHECKED BY _____ DATE _____

Boilre 1 & 2
North Face

6766 Ft² Acm Behind Steel plate




Under Steel Plate PAcm - ± 1152 Ft²




Under Steel Plate PAcm ± 1152 Ft²

Totals

Total Surface TSI - 0304 sq ft
TSI Pipe Gaskets 576 (12" pipe)
Fire Brick PAcm - ± 045 Tons
Heat ducts E & W sides Behind steel plates ± Estimate ± 644 sq Ft

37-3 Fire Brick Sample
38-1 insolation Behind Steel plate

ECT

Environmental Consulting & Technology, Inc.

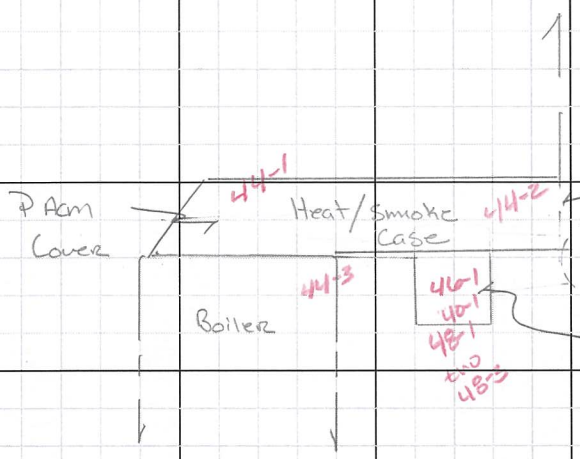
PROJECT Otsego Paper mill RH 2D

PROJECT NO. 10-0925

SHEET NO. 5 OF 6

CALCULATED BY MJH DATE 5-2-2013

CHECKED BY _____ DATE _____




TSI gasket Total 32 L.Ft

Total 288 TSI Gaskets Total 2" Pipe

Heat/Smoke chase 1024 Sq Ft² Total

Top Steam Coils 7 1088 Sq Ft² Total

Totals Above Basement (Power House)

| | | | |
|---|---|---|---|
| Debris | +/- | 452 Tons | (on-Floor) |
| TSI Pipe | | 59 Lin Ft | |
| Boiler | +/- | 6768 Ft² | White TSI coating |
| Fire Brick | +/- | 245 Tons | |
| Heat Duct | +/- | 1668 ft² | |
| Gasket 2" | +/- | 861 gaskets | |
| Stack Heat/Smoke CASE Gaskets | +/- | 32 Lin Ft | |

Unknown – Acm Inside Boiler (Estimate +/- Surface Acm 1000 Ft² ±)
Contingency (Gaskets +/- 300 Lin Ft)

44-1 thru 44-3 heat Hood over furnace

48-1 thru 48-3 Brown fiberous packing Insulation

48-1 Insulation second Heat coil

ECT

Environmental Consulting & Technology, Inc.

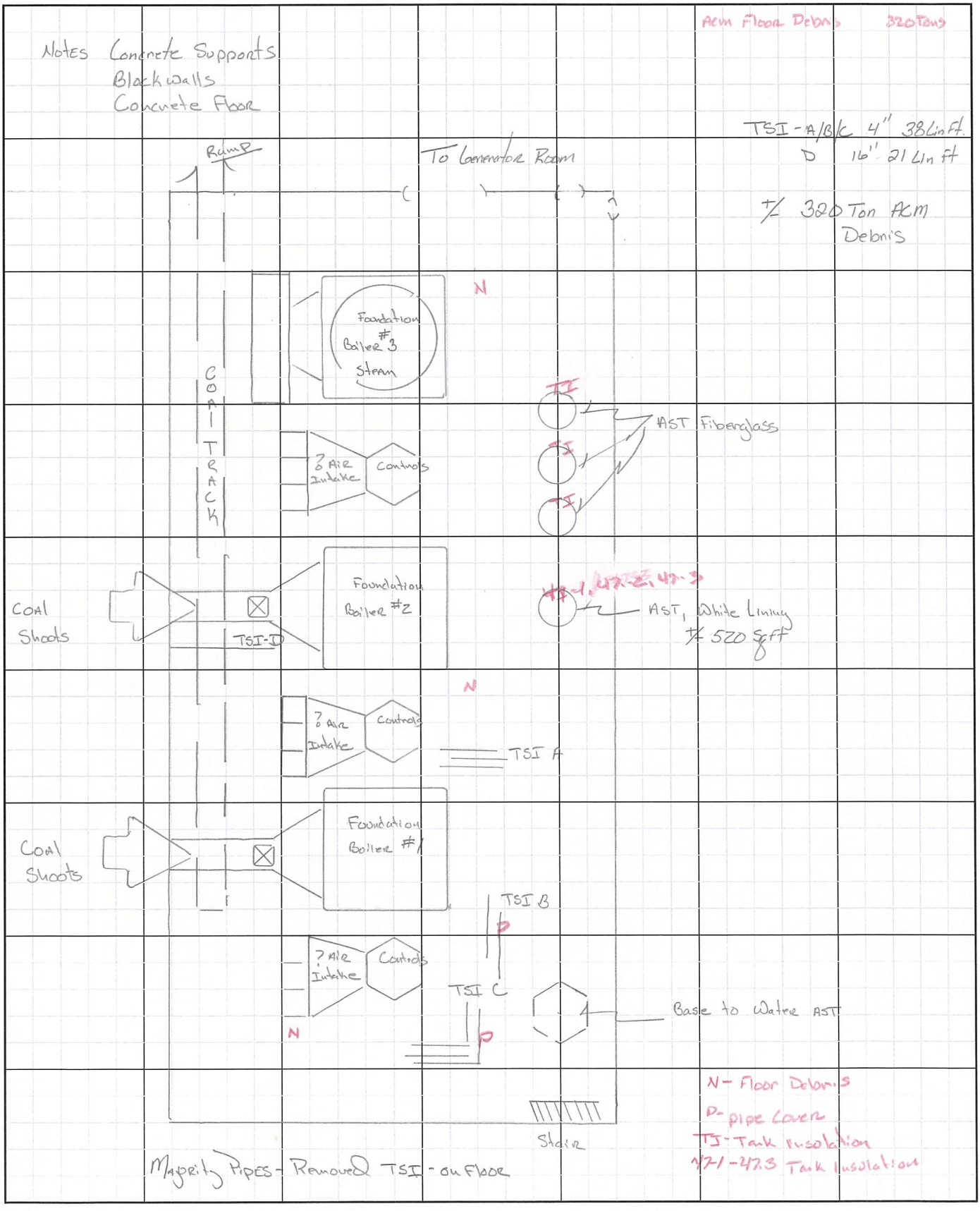
PROJECT Otsego Paper Mill DH F-1

PROJECT NO. 10-0985 ,200

SHEET NO. 6 OF 6

CALCULATED BY mmt DATE 5-2-2013

CHECKED BY _____ DATE _____



ECT

Environmental Consulting & Technology, Inc.

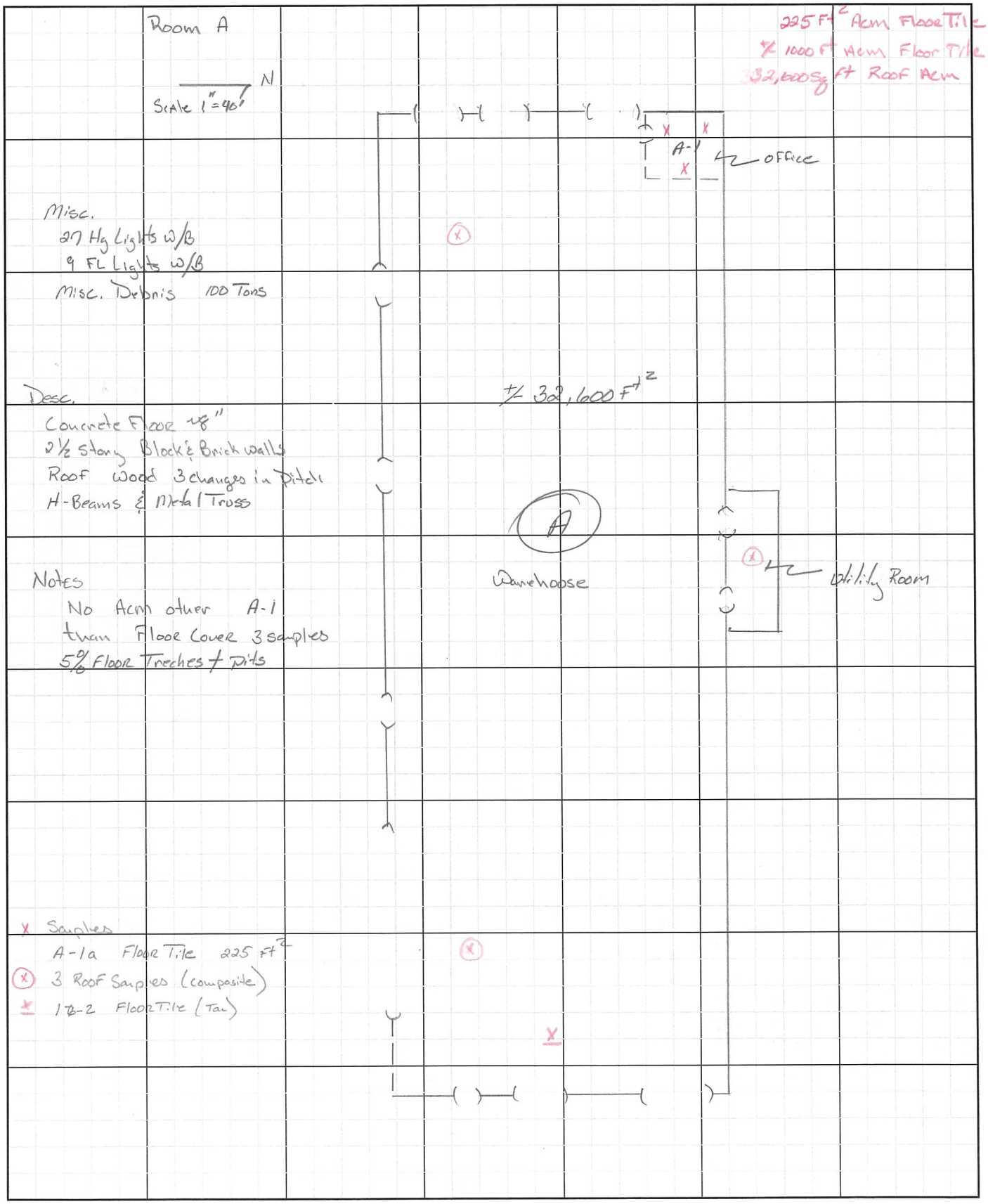
PROJECT Otsego Paper Mill (A)

PROJECT NO. 100925 1200

SHEET NO. 2 OF 2

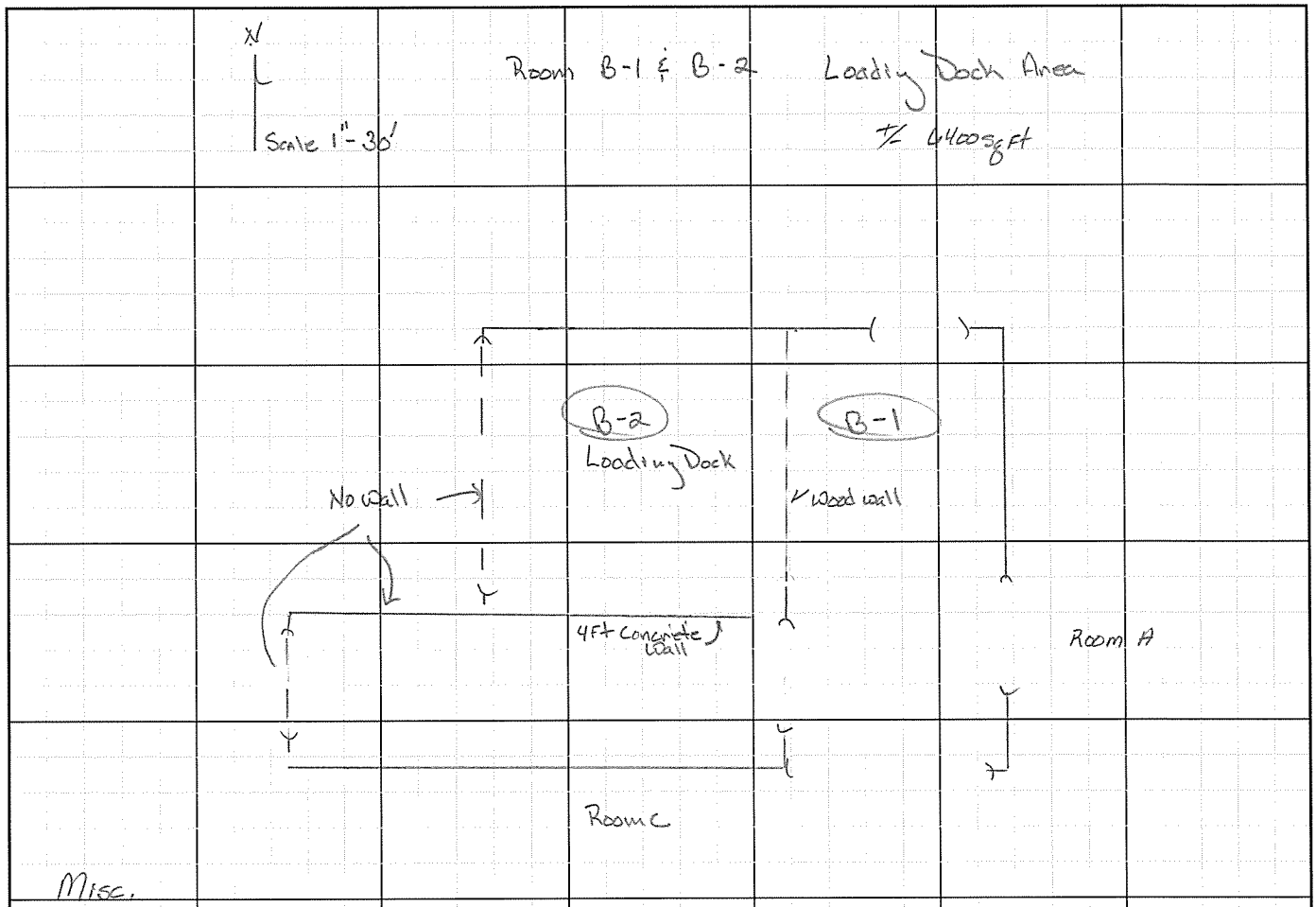
CALCULATED BY MTH DATE 11-17-2015

CHECKED BY _____ DATE _____



ECT
Environmental Consulting & Technology, Inc.

PROJECT Otsego Paper Mill B-1 & B-2
PROJECT NO. 100985 1200
SHEET NO. 2 OF 2
CALCULATED BY MMT DATE 4-17-2013
CHECKED BY _____ DATE _____




Misc.

7 Hg Lights w/B
Misc. Debris 15 Tons
Entrical Dock Locks (NOPCB/NO ACM)

No ACM Found

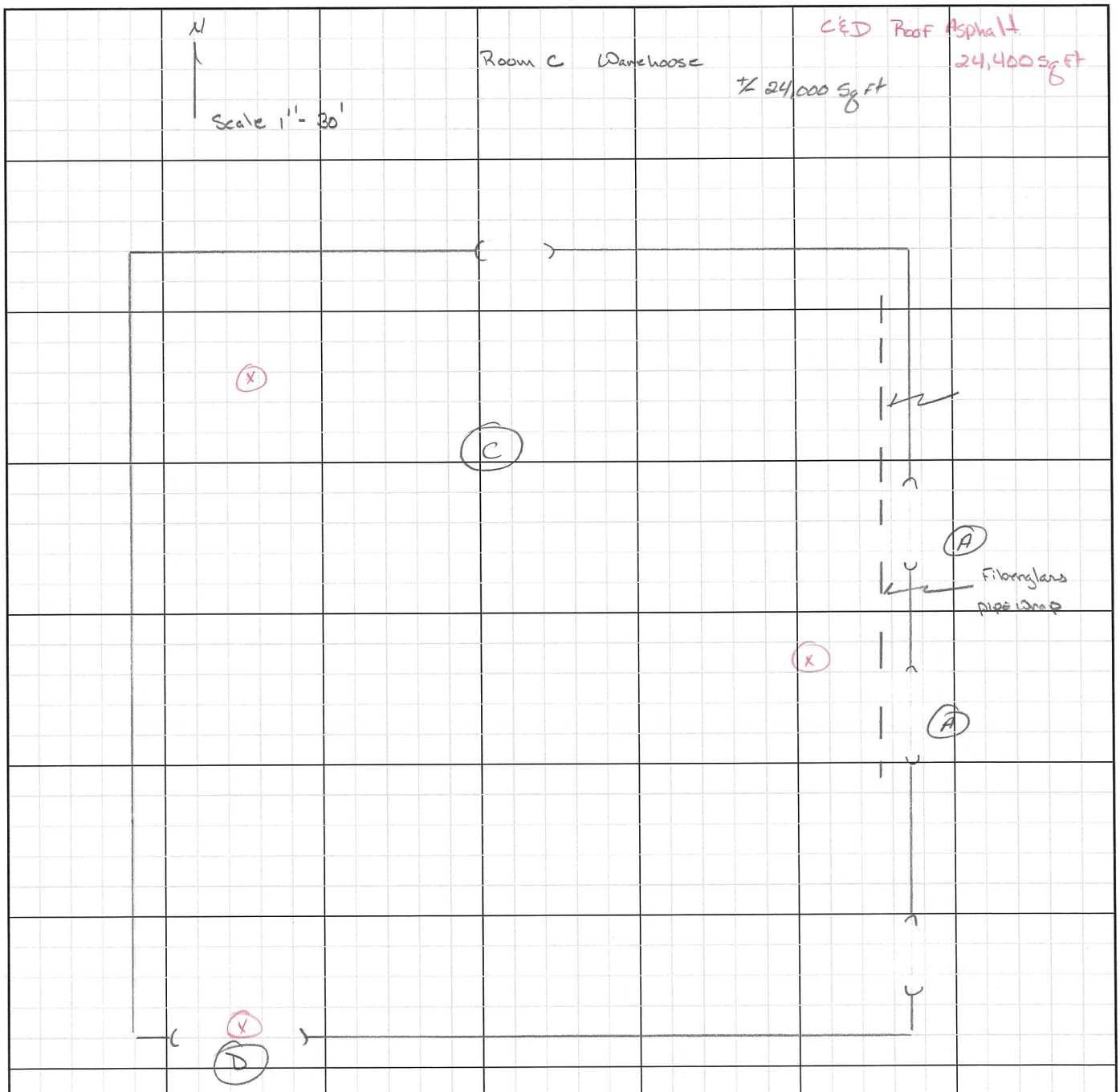
Desc.

B-1 Metal Roof
Walls ½ wood/metal
½ Brick & Block
Metal Supports Truss
Concrete floor

B-2 Metal Walls, ½ Block
Walls ½ wood ¼ metal ¼ Block
Metal Truss

**ECT**
*Environmental Consulting & Technology, Inc.*

PROJECT Paper Mill (C)
PROJECT NO. 100925 1200
SHEET NO. 2 OF 2
CALCULATED BY MJH DATE 4-17-2013
CHECKED BY _____ DATE _____




Misc.
Metal Roof
N Walls ½ metal, ½ wood
others Walls ½ Brick & Block ½ metal
Metal / Truss
Concrete Floor
Spray Insolation

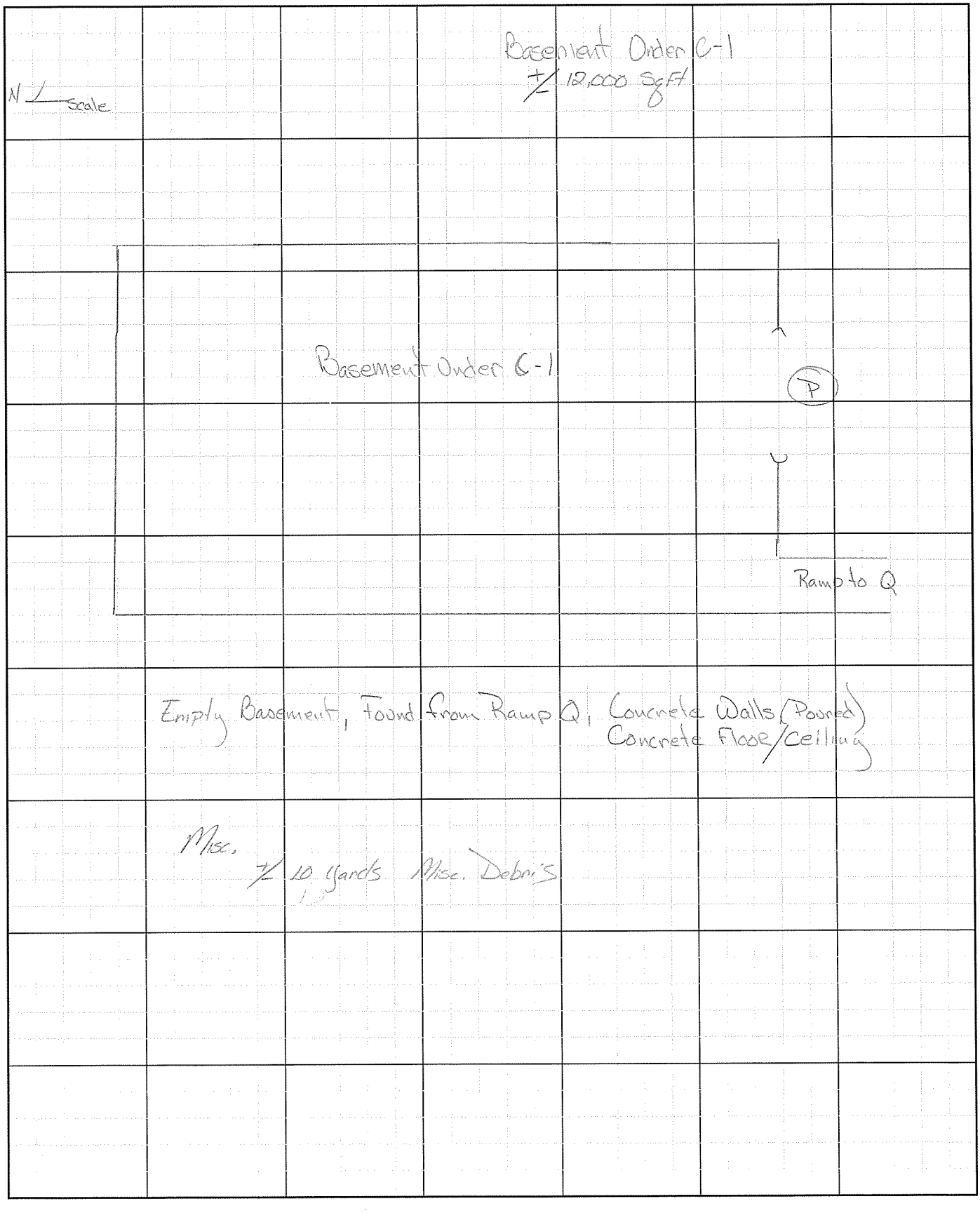
Desc.

Desc.
49 FL Lights (8' Lights ½ bulbs)
20 Debris (yards)
4 Hg Lights/B
(X) 3 Samples Black Tabular material (ACM)

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PROJECT Otsego Paper Mill B-Basement
PROJECT NO. 100925 1000
SHEET NO. A4 to G OF
CALCULATED BY MMH DATE 4-25-13
CHECKED BY DATE



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PROJECT Paper Mill (D)

PROJECT NO. 100925-1200

SHEET NO. 2 OF 2

CALCULATED BY MH DATE 4-17-2013

CHECKED BY _____ DATE _____

Roof Material 400 sq ft ACM

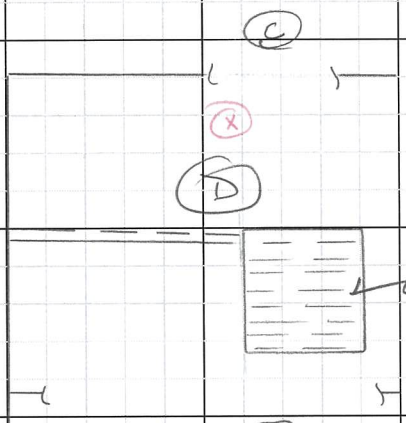
N

Scale 1" - 10'

Room D

± 400 sq Ft

Hallway




| Desc. | | Misc. |
|---|---|---|
| Brick & Block<br>Metal Roof<br>Concrete Floor | 2 Levels w/stairs | 2 yards Debris |

X Roof Material Same as C

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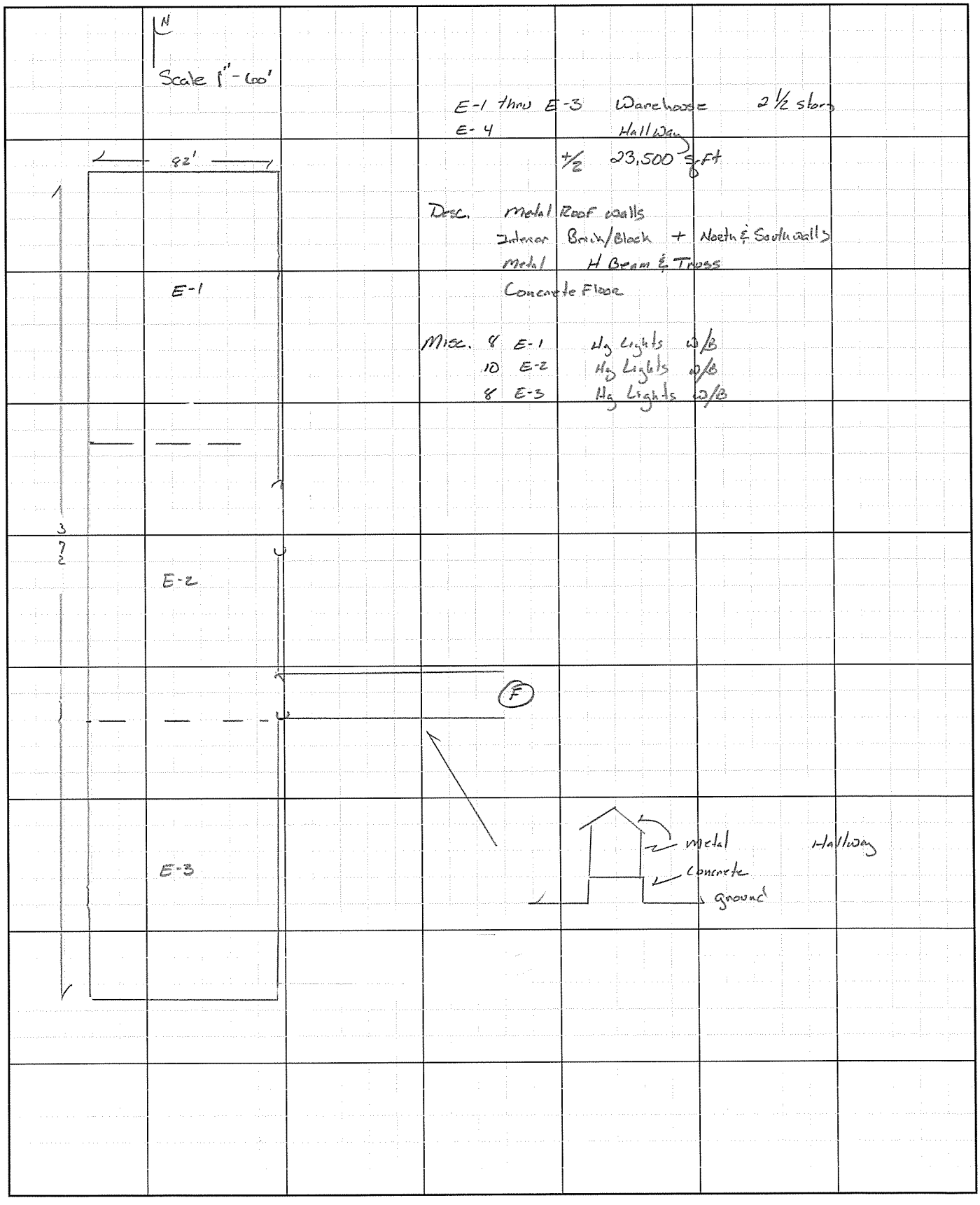
PROJECT Paper Mill E-1 thru E-4

PROJECT NO. 100925 1200

SHEET NO. 2 OF 2

CALCULATED BY MTH DATE 4-17-2015

CHECKED BY _____ DATE _____




E-1 thru E-3 Warehouse 2 1/2 story
E-4 Hallway

1/2 23,500 sq Ft

Desc. Metal Roof walls
Interior Brick/Block + North & South walls
Metal H Beam & Trusses

Concrete Floor

Misc. 8 E-1 Hg Lights w/B
10 E-2 Hg Lights w/B
8 E-3 Hg Lights w/B

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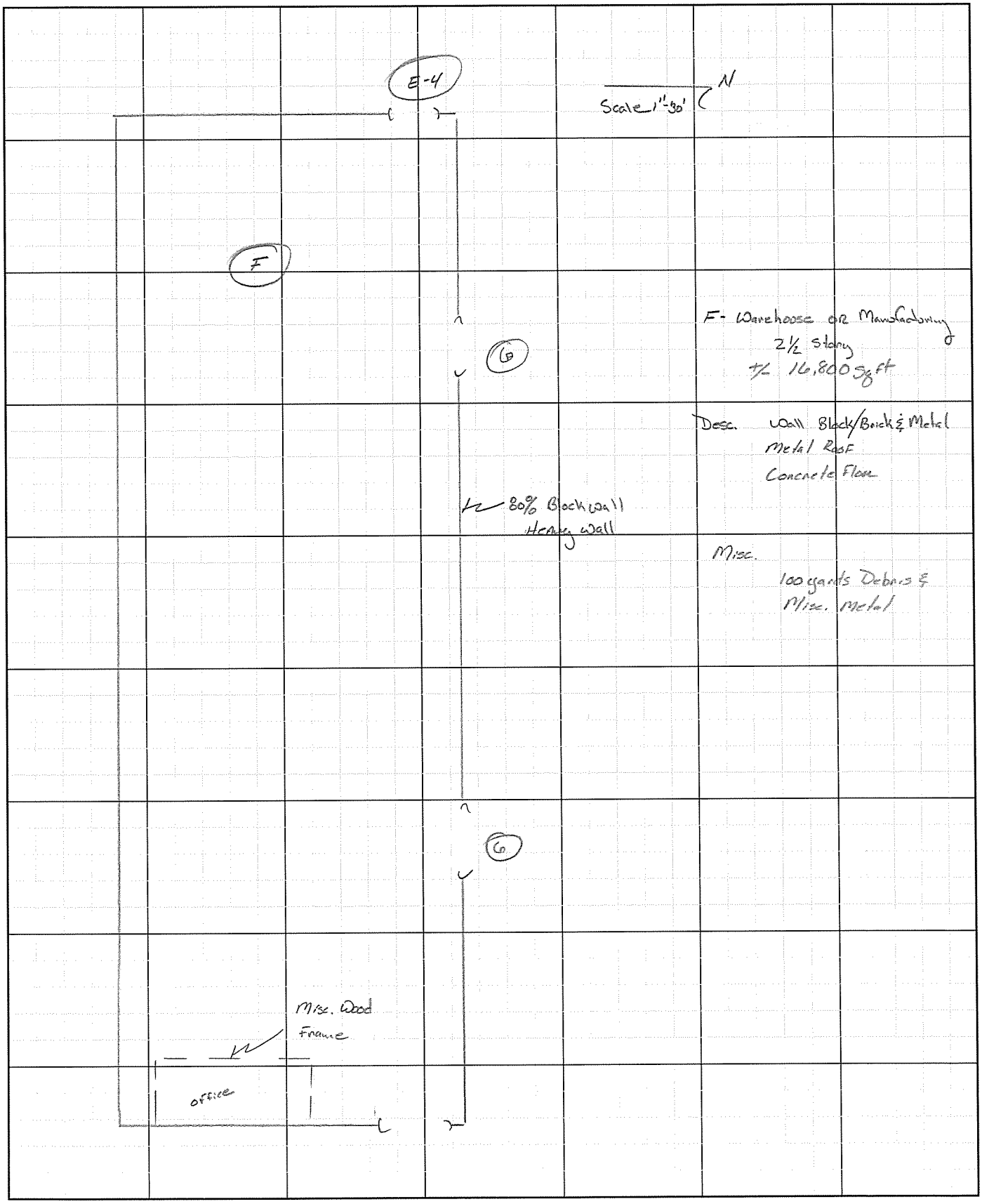
PROJECT Paper Mill (F)

PROJECT NO. 100925-1200

SHEET NO. 2 OF 2

CALCULATED BY MTH DATE 4-17-2015

CHECKED BY _____ DATE _____



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PROJECT Paper mill (6)

PROJECT NO. 160925-1200

SHEET NO. 2 OF 2

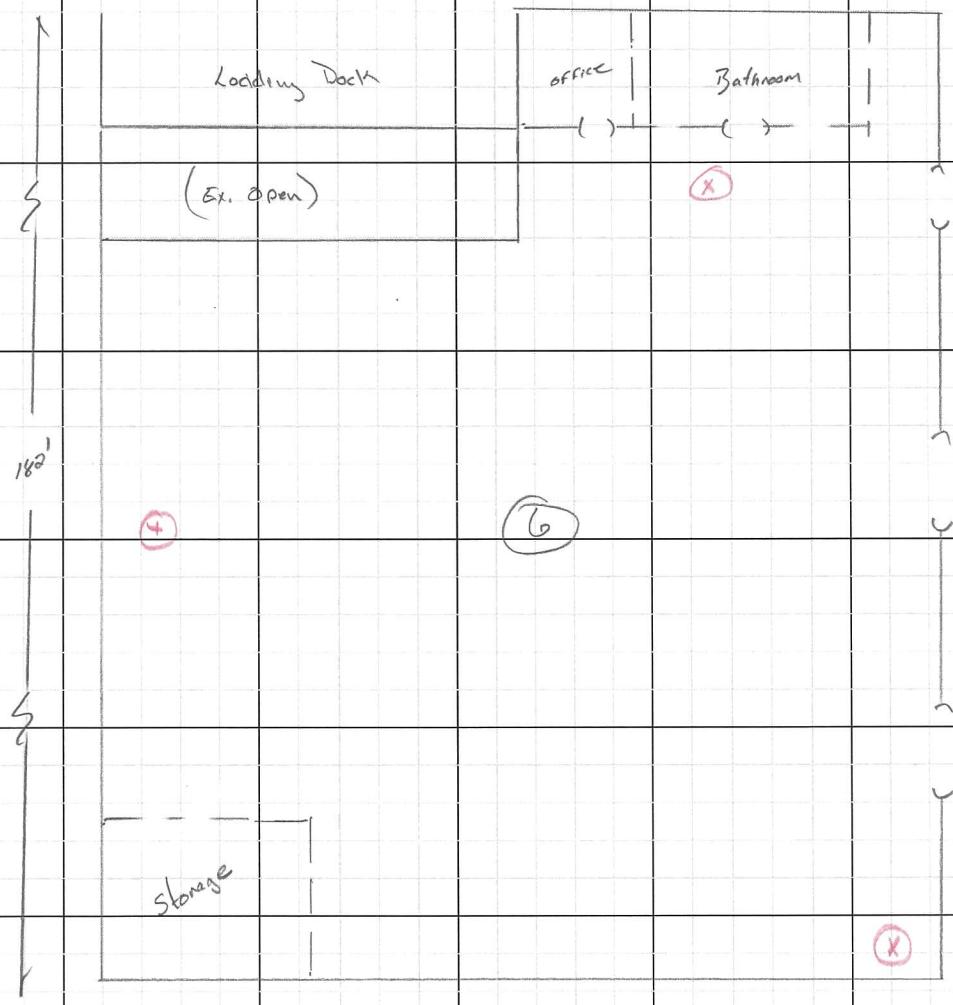
CALCULATED BY MTH DATE 4-17-2013

CHECKED BY _____ DATE _____

(6) Room Warehouse 1½ Story
+/- 25,500 Sq Ft

N

Scale 1"-30'




Desc.

Block wall
Concrete Floor
I Beam System
Concrete Roof

Misc.

Hydraulic Lifts + Loading dock
6 Hg Lights

(X) Roofing Black Tabular material

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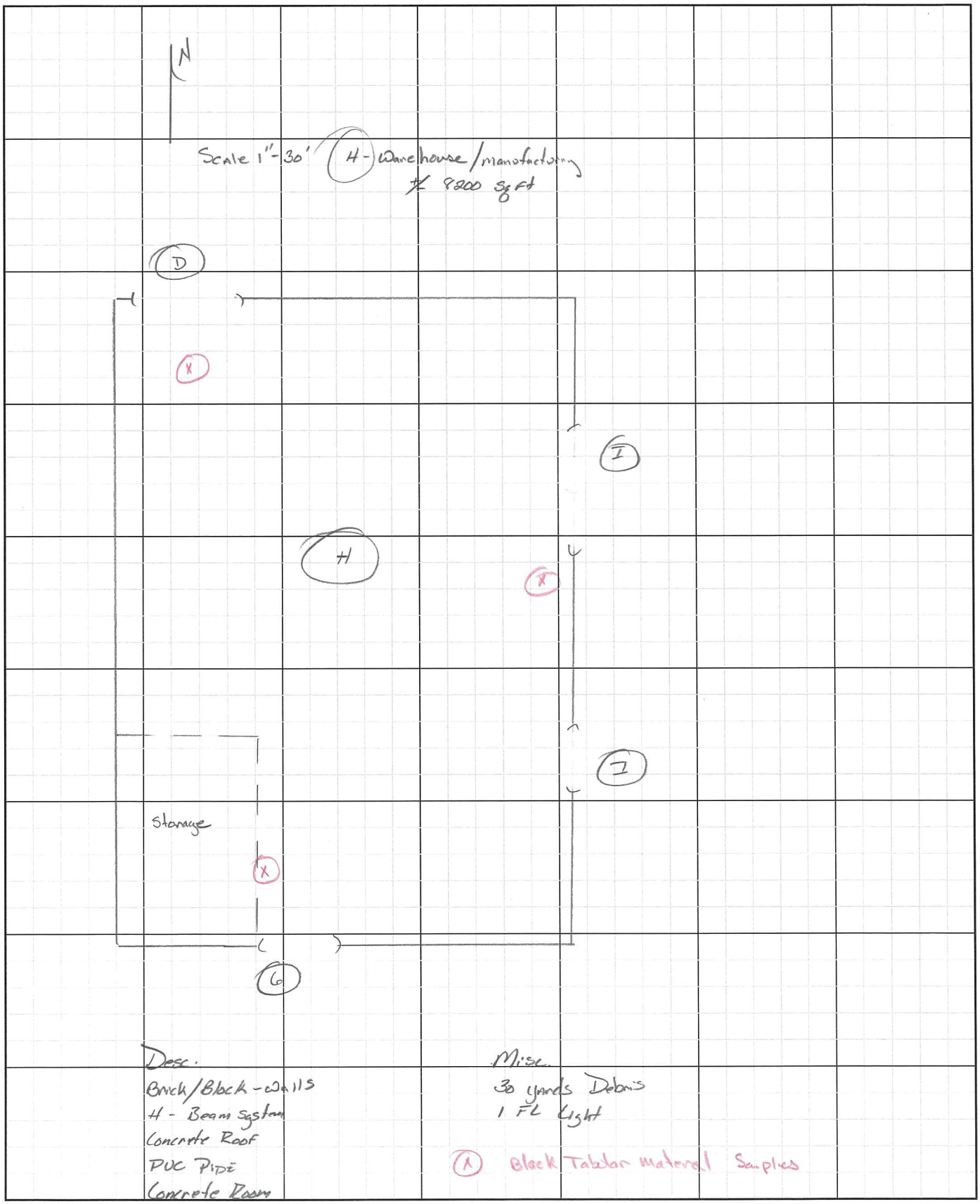
PROJECT Paper Mill (H)

PROJECT NO. 100925-1200

SHEET NO. 2 OF 2

CALCULATED BY MTH DATE 4-17-2013

CHECKED BY _____ DATE _____



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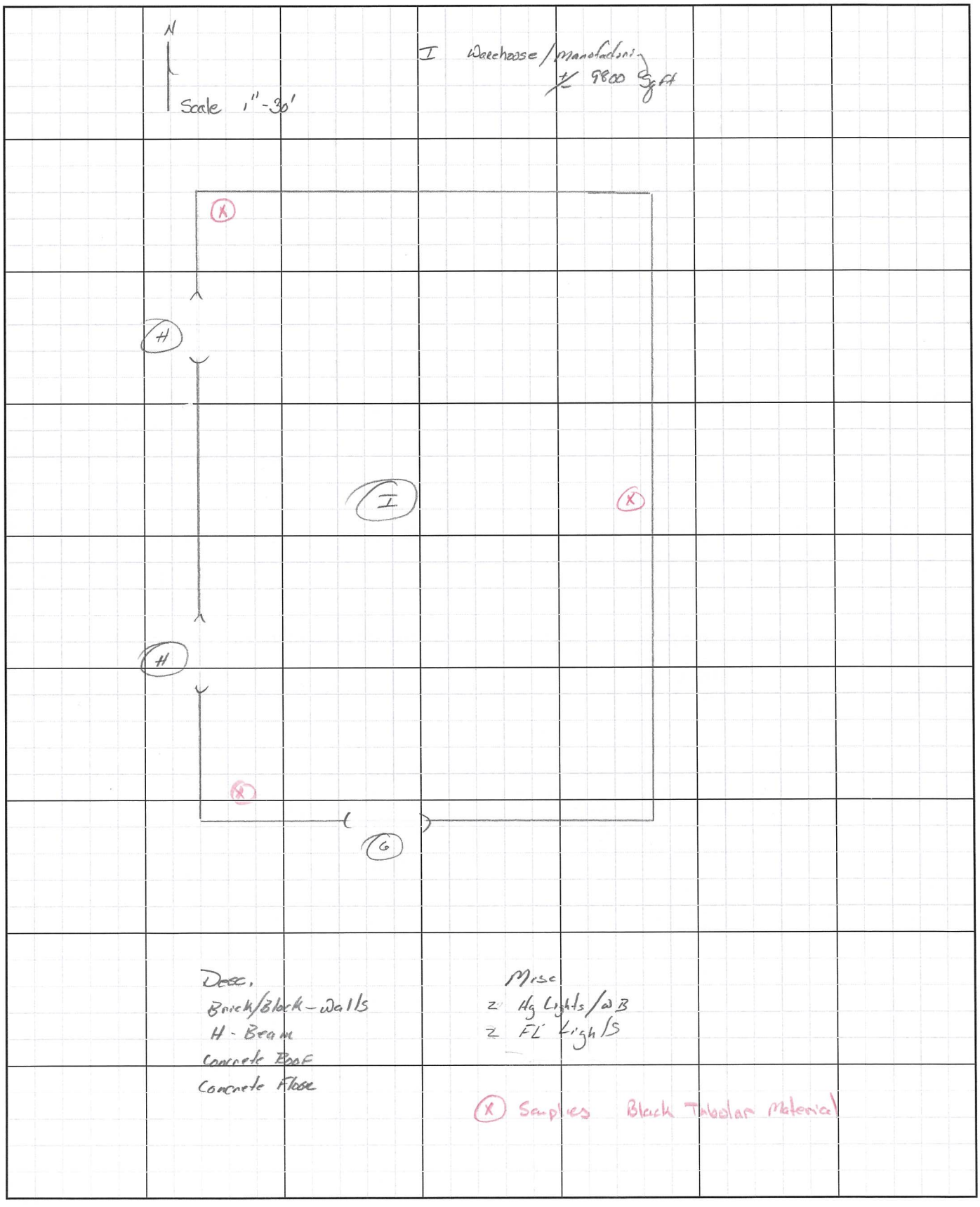
PROJECT Paper Mill (I)

PROJECT NO. 10925-1700

SHEET NO. 2 OF 2

CALCULATED BY MTH DATE 4-17-2013

CHECKED BY _____ DATE _____




Desc.
Brick/Block - walls
H - Beam
Concrete Roof
Concrete Floor

Misc
2 Hg Lights / ea
2 FL Lights

(X) Samples Black Tabular Material

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PROJECT Osseo Paper Mill J-1
PROJECT NO. 100925-1200
SHEET NO. 2 OF 4
CALCULATED BY MTH DATE 4-17-2013
CHECKED BY _____ DATE _____

J-1 (Basement Floor)
+/- 4800 Sq Ft

N
Scale 1" = 20'

40'

stair

Massive 24'x24' Foundation

Trench Systems

J-1

Misc.

Debris +/- 100 yards
oil Staining Floor
Massive Foundations
1- Fork Truck

Massive 35'x35' Foundation

1 Sample Debris ACM

Sample - Debris floor Comp.

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PROJECT Otsego Paper Mill J-2

PROJECT NO. 100985-1200

SHEET NO. 3 OF 4

CALCULATED BY MTH DATE 4-17-2013

CHECKED BY _____ DATE _____

N

1"- 20'

J-2 First Floor

+/- 4,200 Sq Ft

Desc.

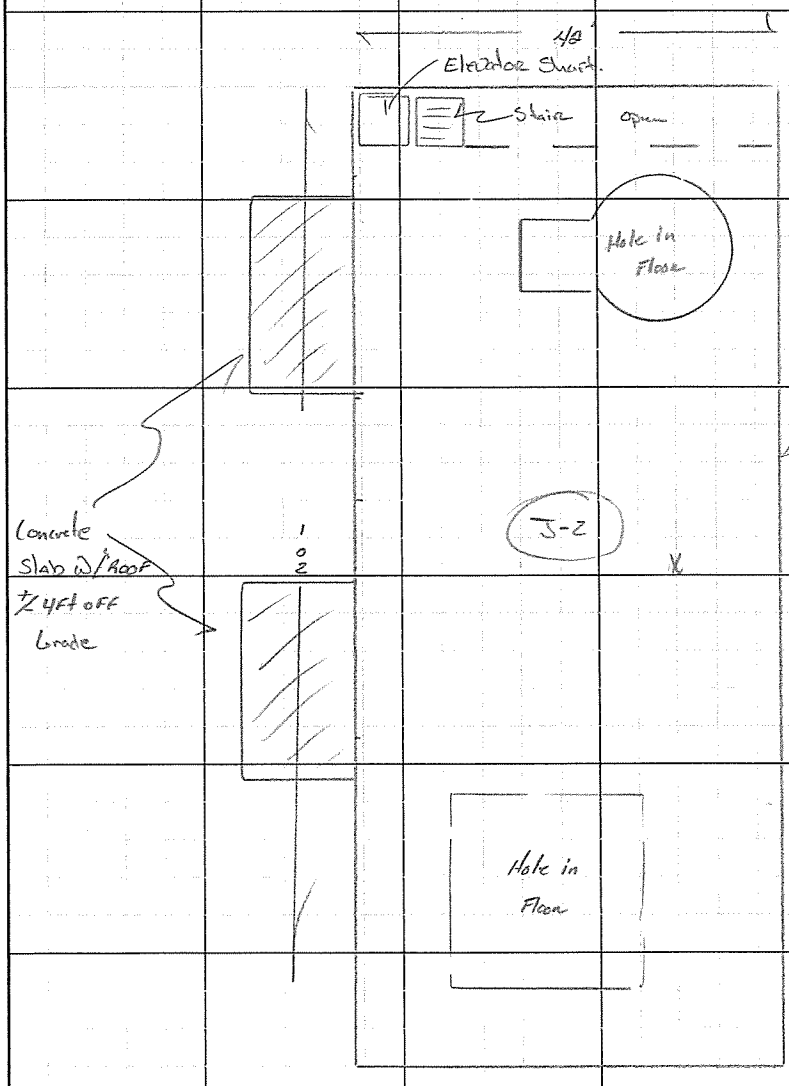
Concrete Floor/ceiling

Concrete/I Beam Support

Misc.

10 cyards Debris

Building Structure - Floor




Sample Debris ACM

X Floor Sample Composite

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PROJECT Otsego Paper Mill J-3
PROJECT NO. 100985-1200
SHEET NO. 21 OF 4
CALCULATED BY MTH DATE 4-17-2013
CHECKED BY _____ DATE _____

J-3 Second Floor
+/- 4200 Sq Ft

N Scale 1"-20Ft



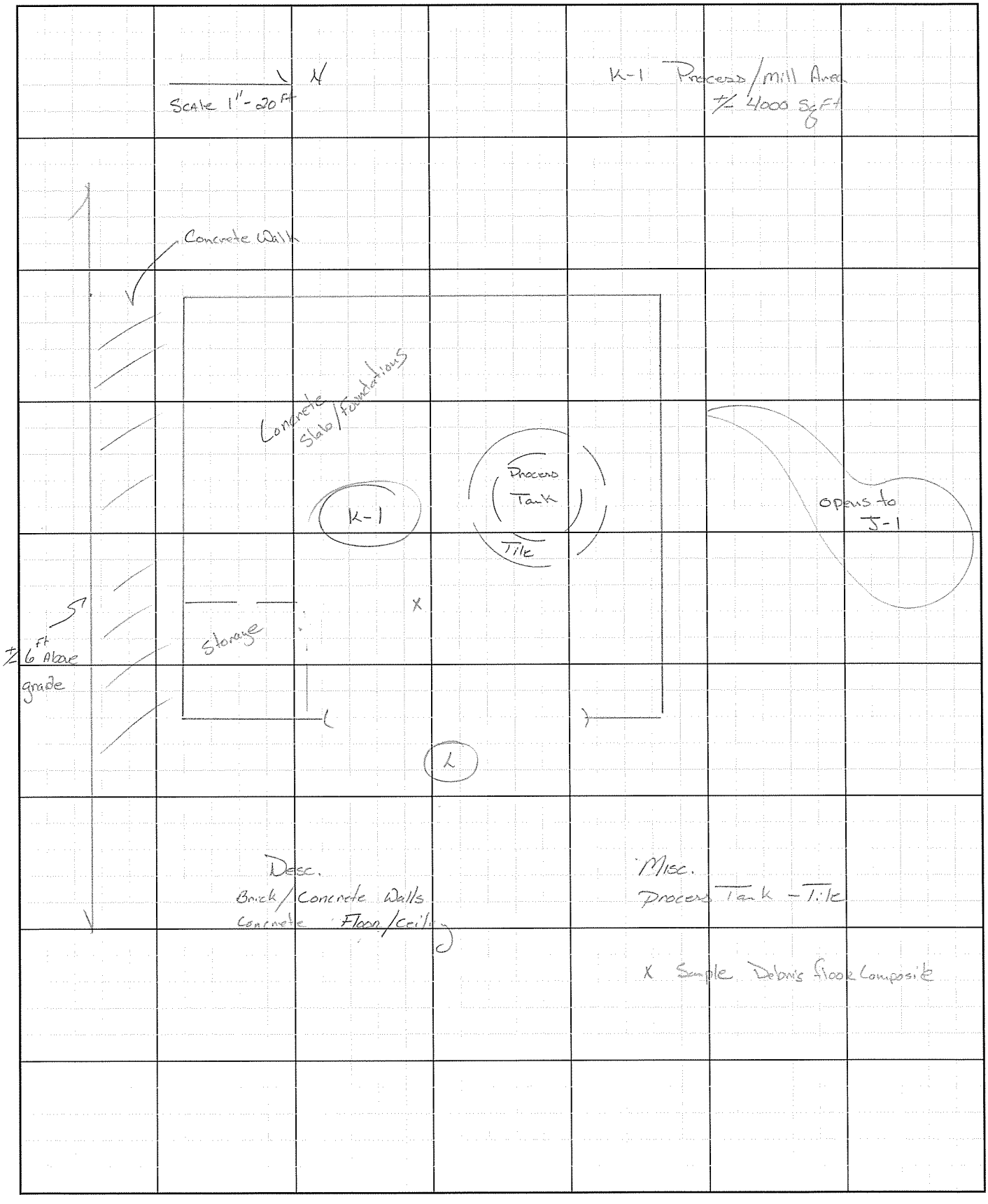

Desc.
Concrete Floor/Roof
I Beam Supports
Condition - Poor

Misc. Debris on Floor 5 yards

Sample Debris ACM
X Floor Sample Composite
(X) Roof Black Tabolar material

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PROJECT Otsego Paper Mill K-1
PROJECT NO. 100925 1200
SHEET NO. 2 OF 4
CALCULATED BY MTH DATE 4-17-2013
CHECKED BY _____ DATE _____



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PROJECT Paper Mill K-2

PROJECT NO. 100995-1700

SHEET NO. 3 OF 4

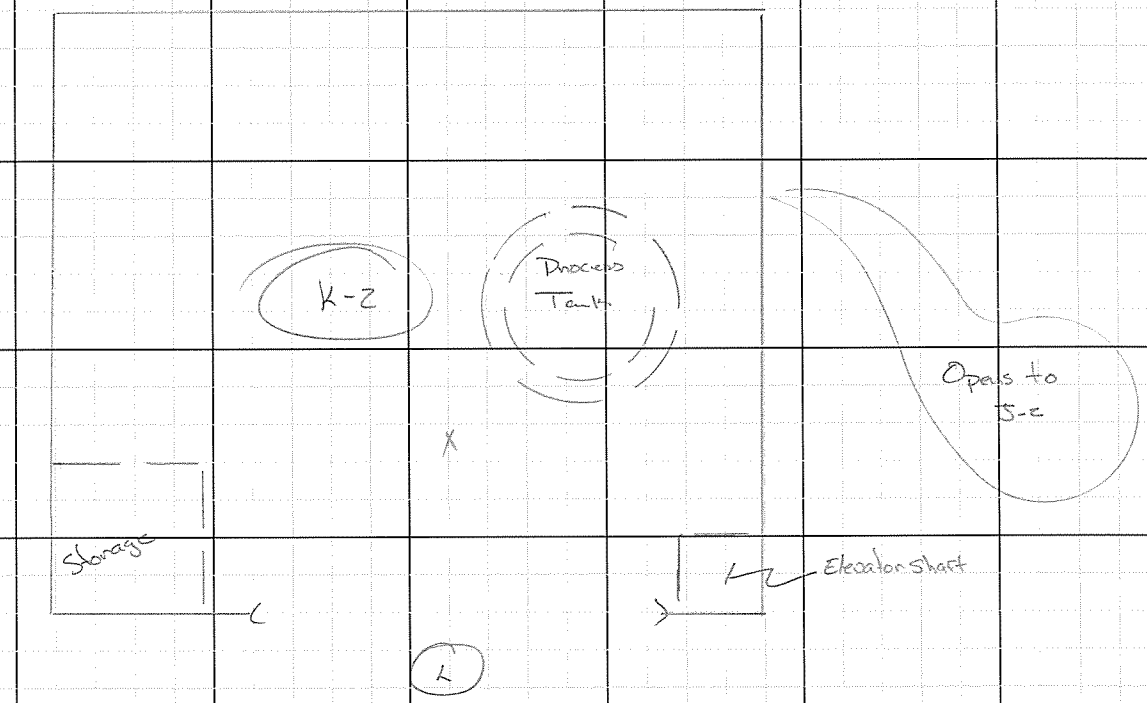
CALCULATED BY MMH DATE 4-17-13

CHECKED BY _____ DATE _____

K-2 Process / Mill Area
+/- 4000 Sq Ft

Scale 1" = 20'

N



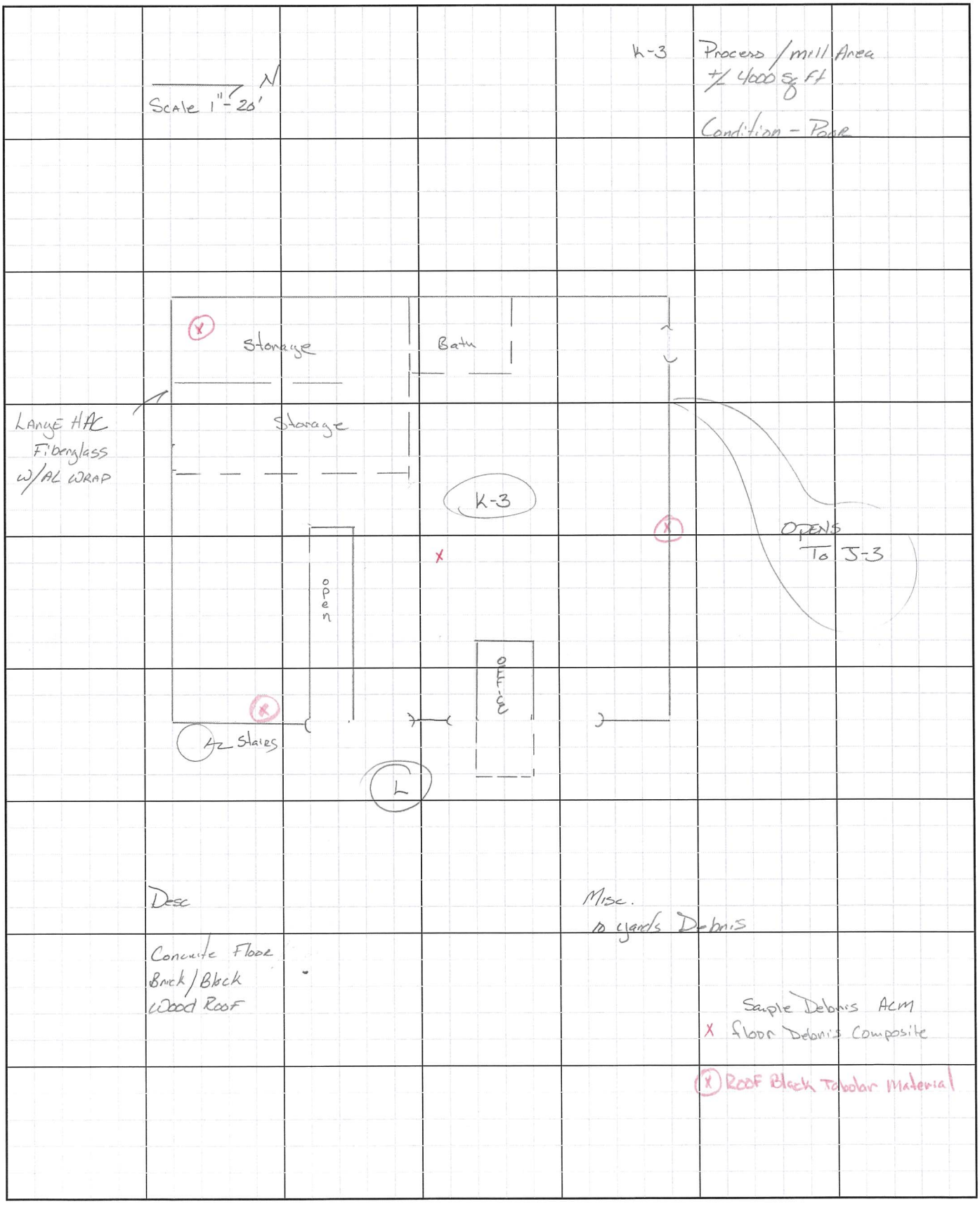

Desc.
Brick/Concrete Walls
Concrete Floor & Roof

Misc.
Process Tank - Tile

X Floor Non Composite

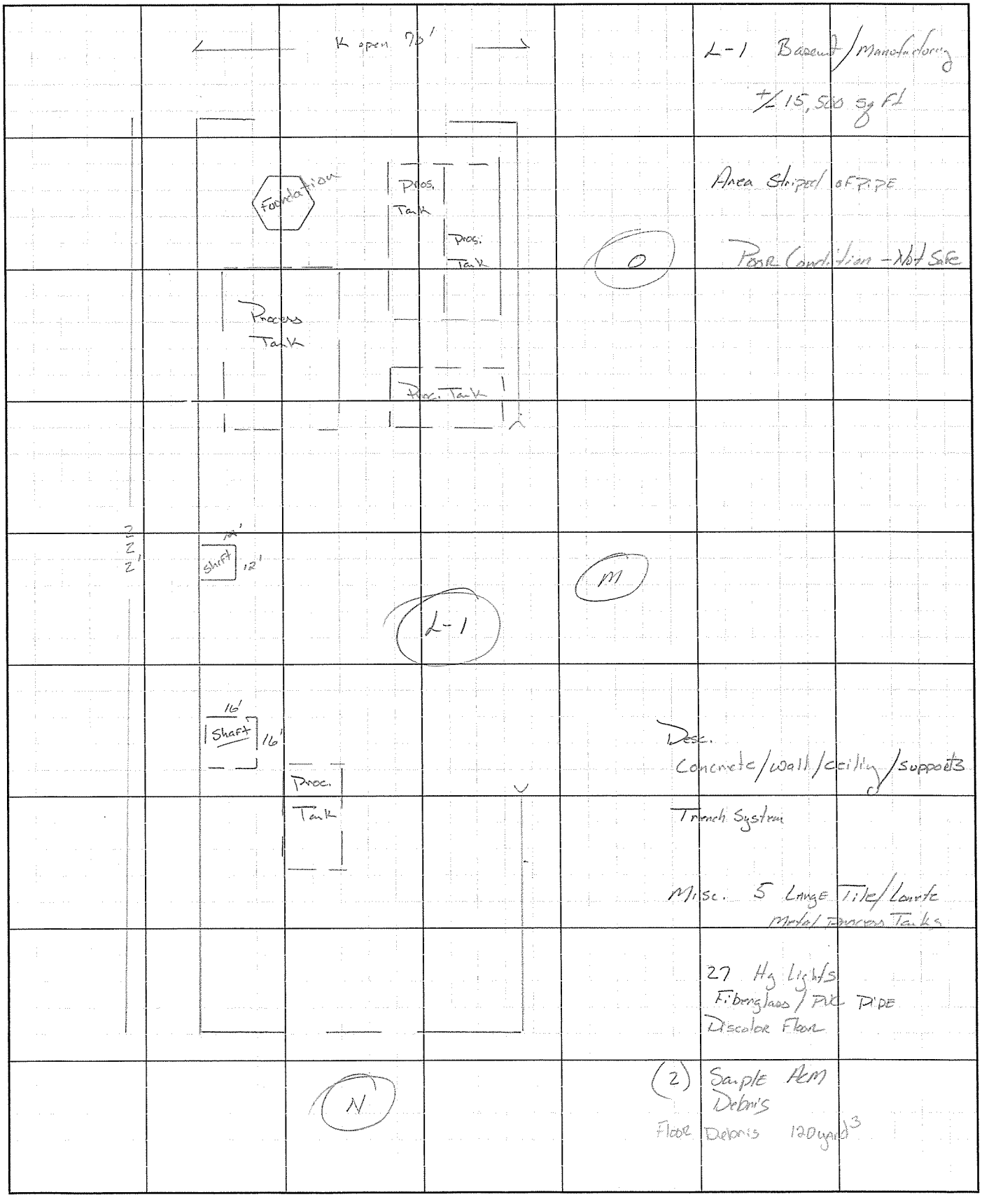
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PROJECT Paper Mill (K-3)
PROJECT NO. 100925 1200
SHEET NO. 1 OF 1
CALCULATED BY MTH DATE 4-17-13
CHECKED BY _____ DATE _____



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PROJECT Paper Mill L-1
PROJECT NO. 100925-1200
SHEET NO. 2 OF 4
CALCULATED BY MTH DATE 4-17-13
CHECKED BY _____ DATE _____



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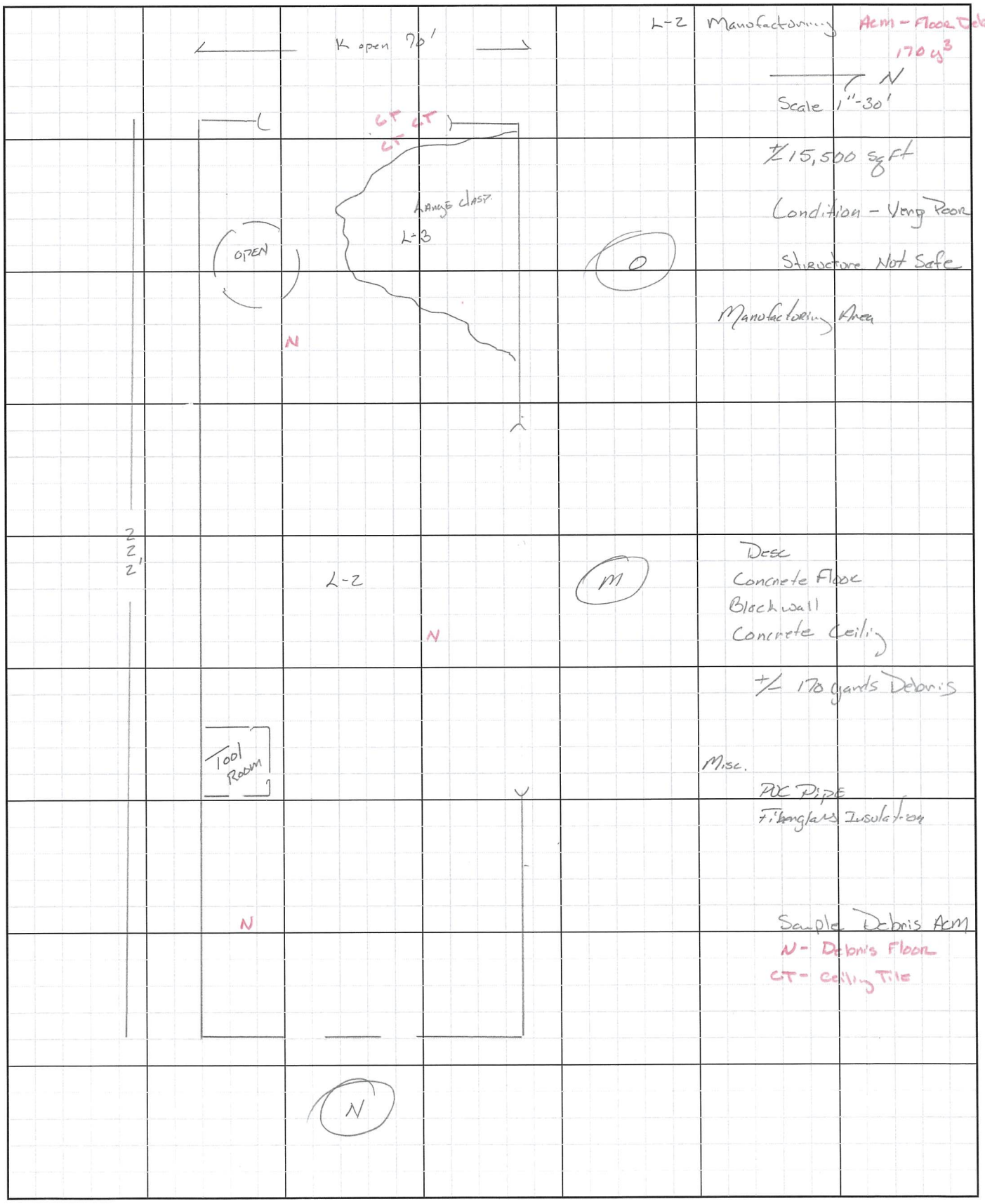
PROJECT Paper Mill L-3

PROJECT NO. 100925-1700

SHEET NO. 3 OF 41

CALCULATED BY MTH DATE 4-17-2013

CHECKED BY _____ DATE _____



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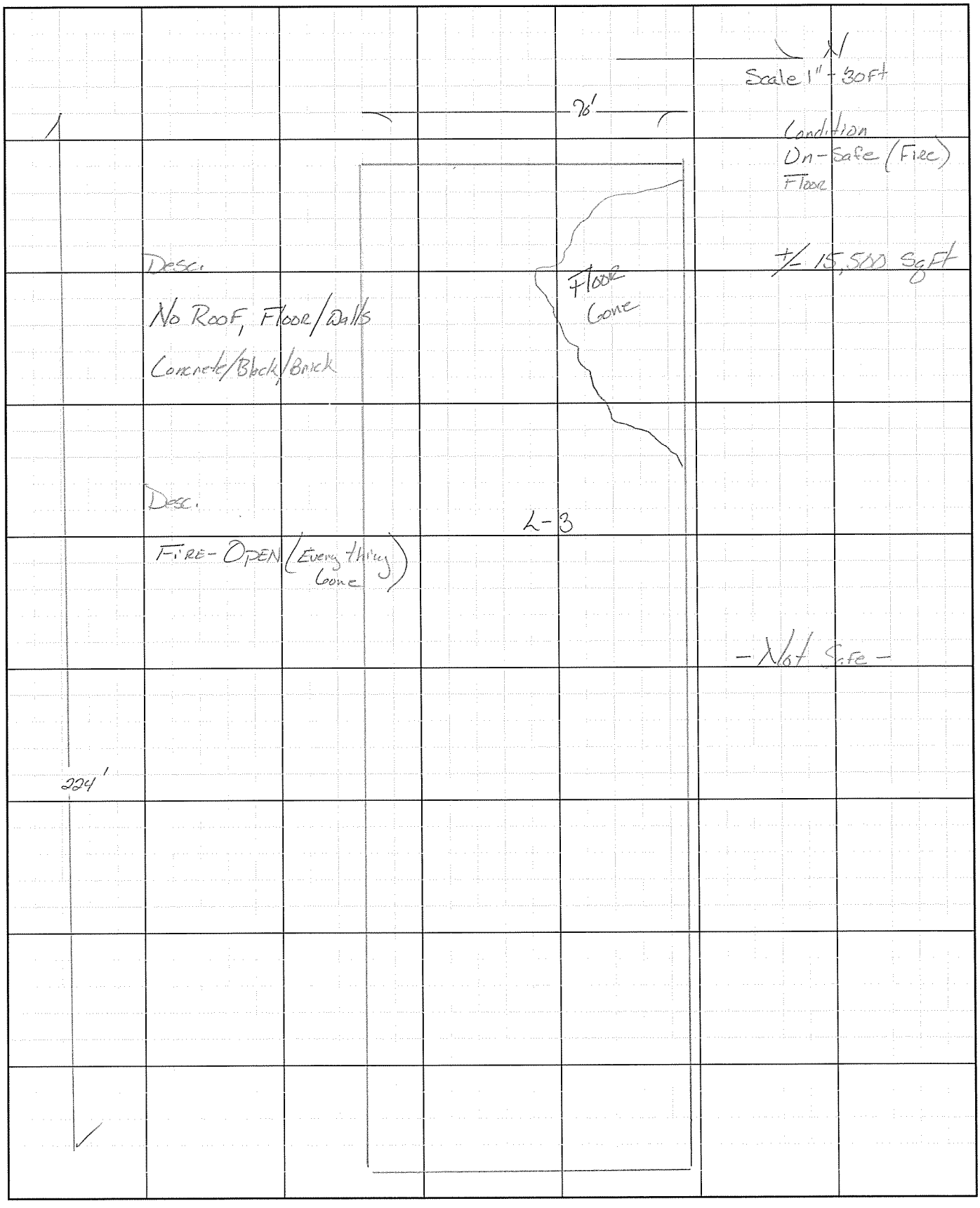
PROJECT Otsego Paper Mill (L-3)

PROJECT NO. 100925-1200

SHEET NO. 4 OF 41

CALCULATED BY mht DATE 4-17-2013

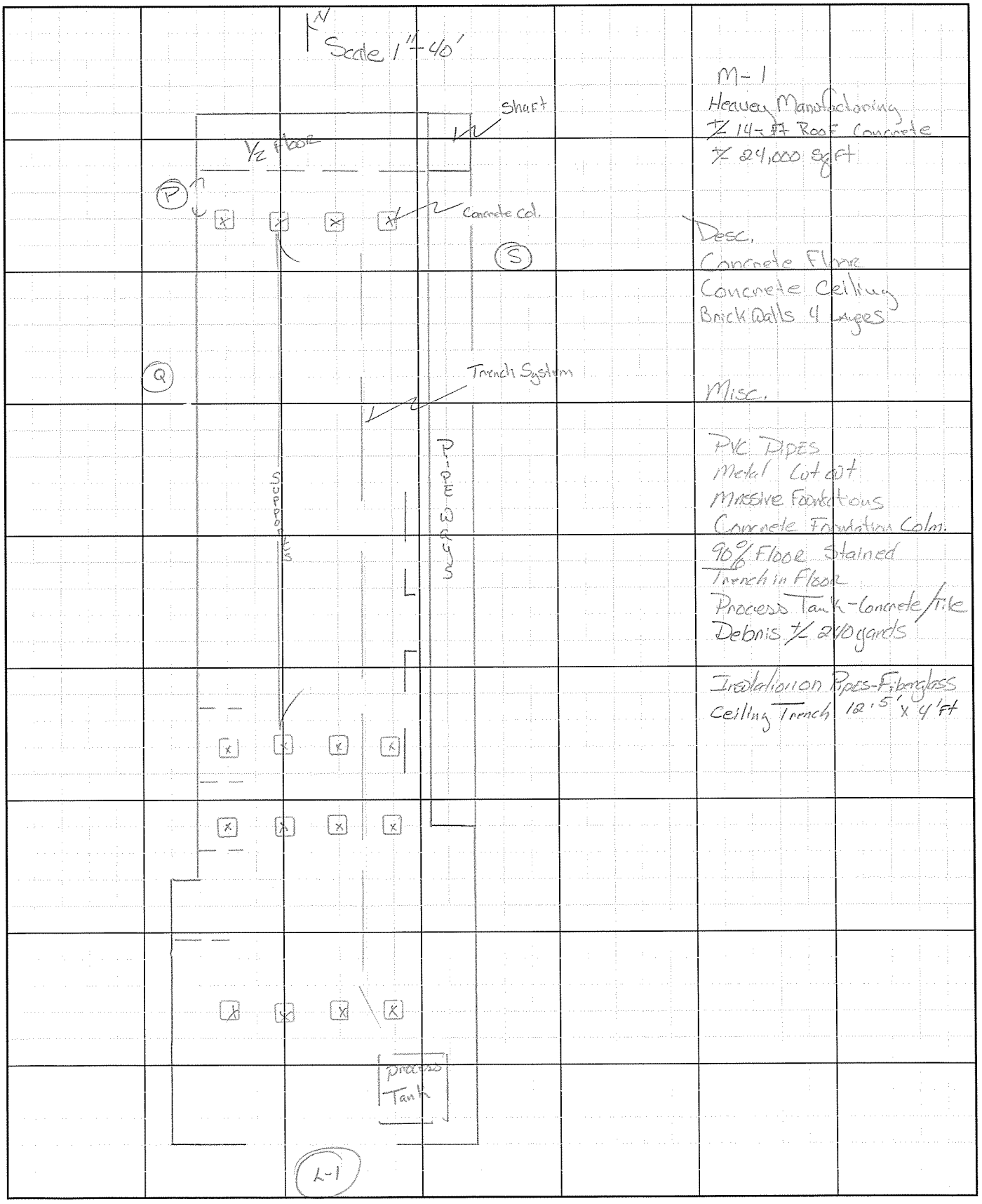
CHECKED BY _____ DATE _____



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PROJECT Otsego Paper Mill (M-1)
PROJECT NO. 100925 1200
SHEET NO. 3 OF 3
CALCULATED BY MTH DATE 4-25-13
CHECKED BY _____ DATE _____




M-1
Heavey Manufacturing
± 14-ft Roof Concrete
± 24,000 Sqft

Desc.
Concrete Floor
Concrete Ceiling
Brick Walls 4 sides

Misc.
PVC Pipes
Metal Cat walk
Massive Foundations
Concrete Foundation Colm.
90% Floor Stained
Trench in Floor
Process Tank - Concrete/Tile
Debris ± 200 yards
Installation Pipes-Fiberglass
Ceiling Trench 12.5' x 4'ft

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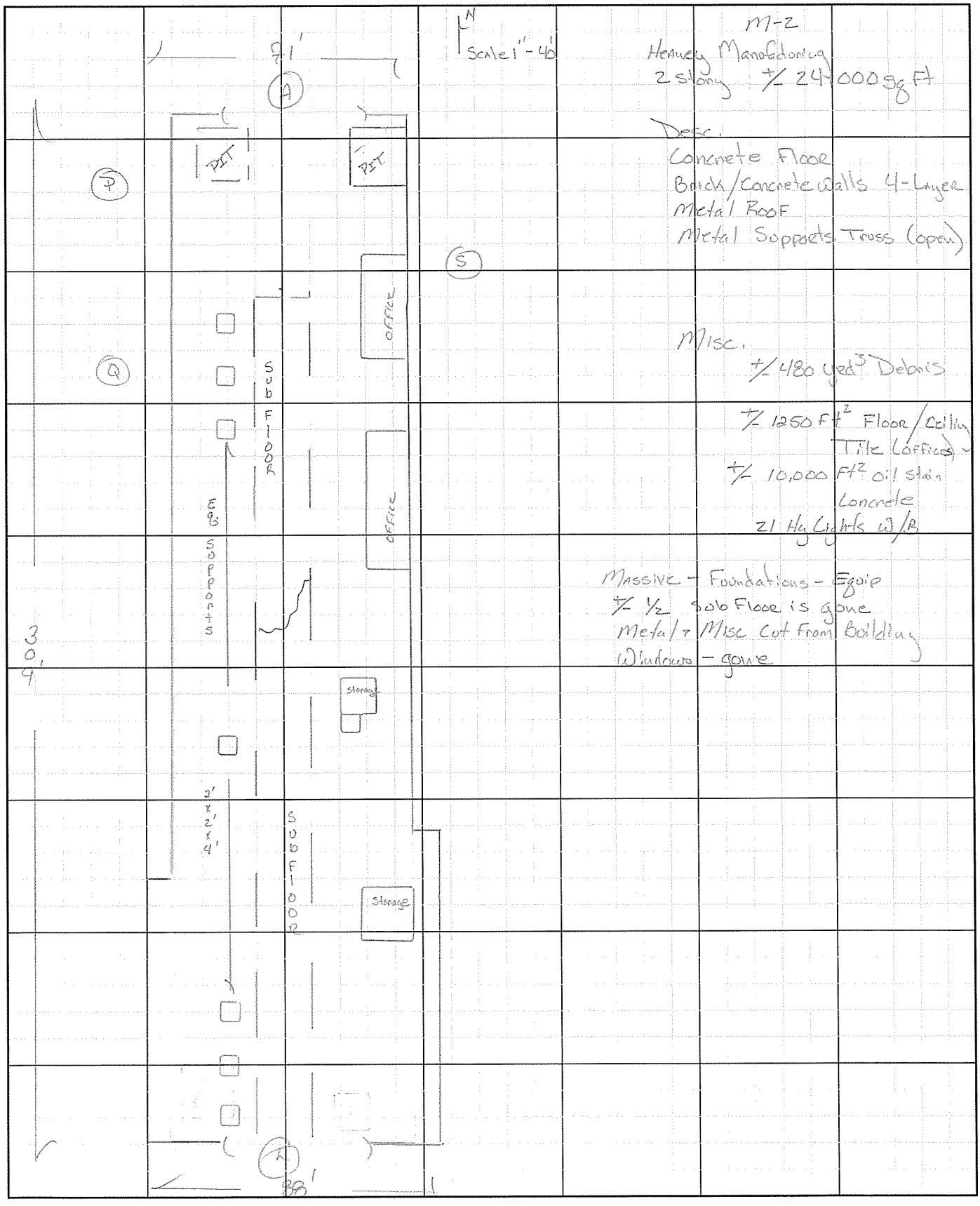
PROJECT Otsego Paper Mill M-2

PROJECT NO. 100925 120

SHEET NO. 2 OF 3

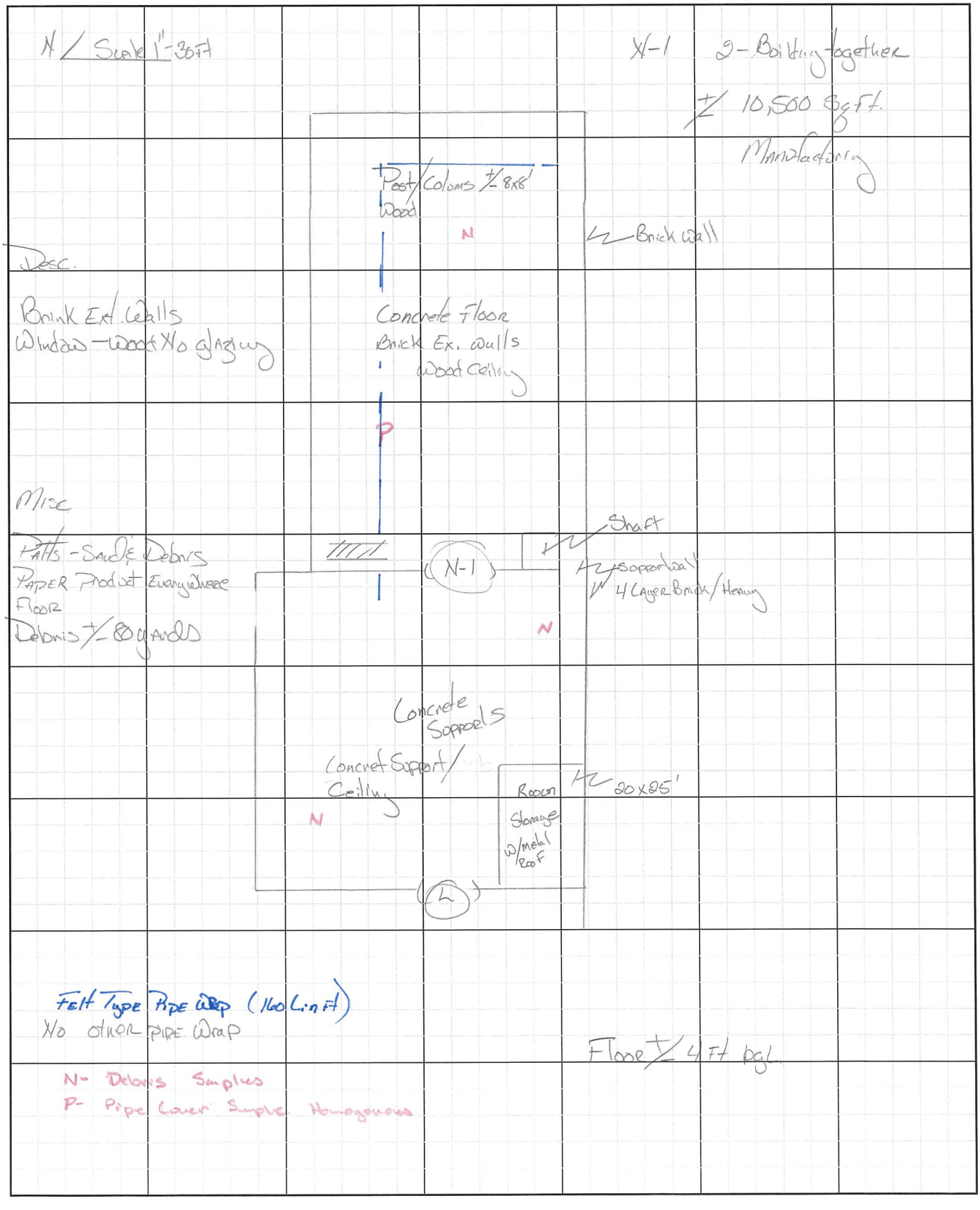
CALCULATED BY MTH DATE 4-25-13

CHECKED BY _____ DATE _____



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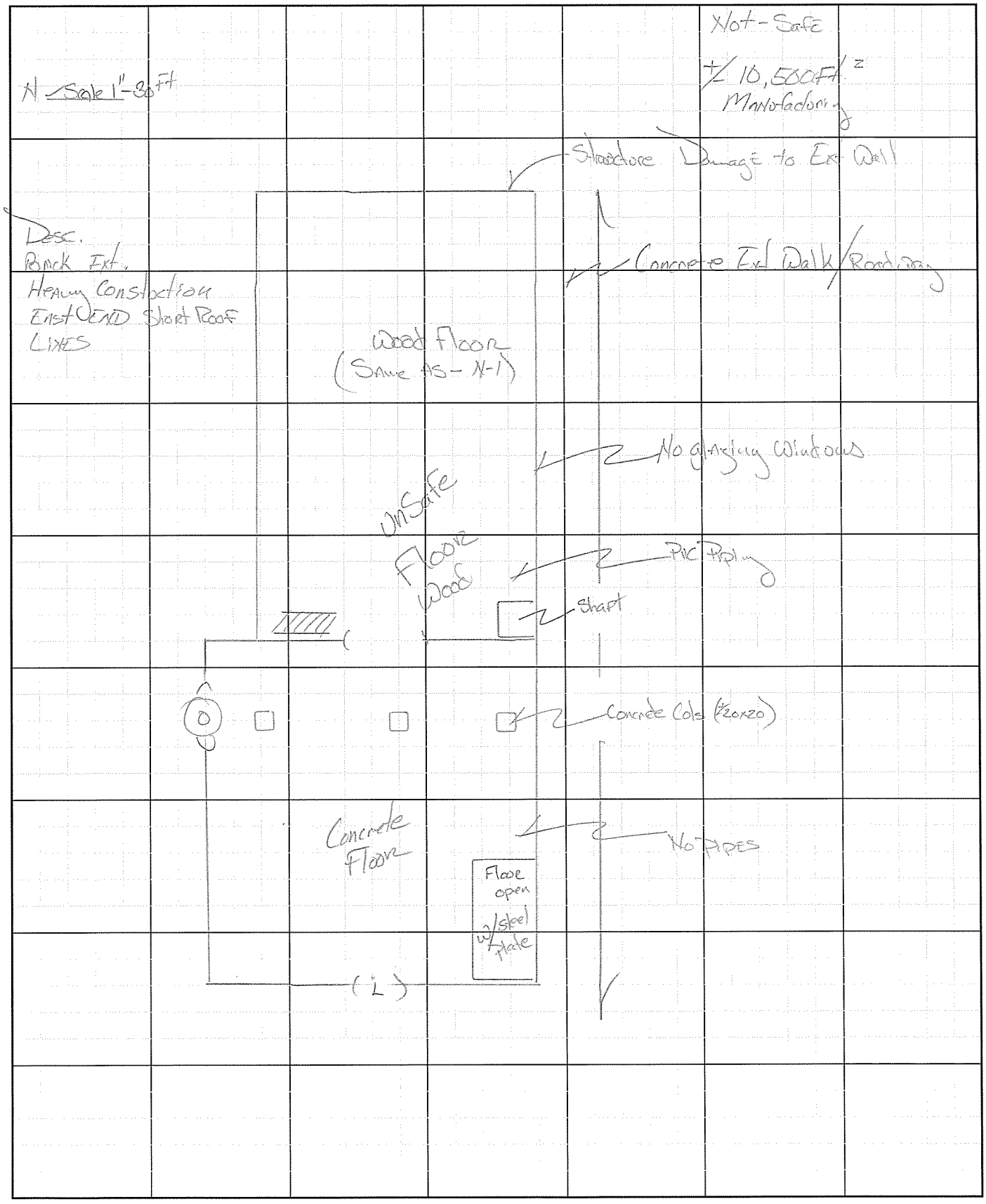
PROJECT Stone Paper Mill (X-1)
PROJECT NO. 100905 - 5000
SHEET NO. 2 OF 5
CALCULATED BY mmH DATE 4-24-2013
CHECKED BY _____ DATE _____



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PROJECT Georgia Pacific Mill (N-2)
PROJECT NO. 100905-1200
SHEET NO. 3 OF 5
CALCULATED BY MTH DATE 4-04-2013
CHECKED BY _____ DATE _____



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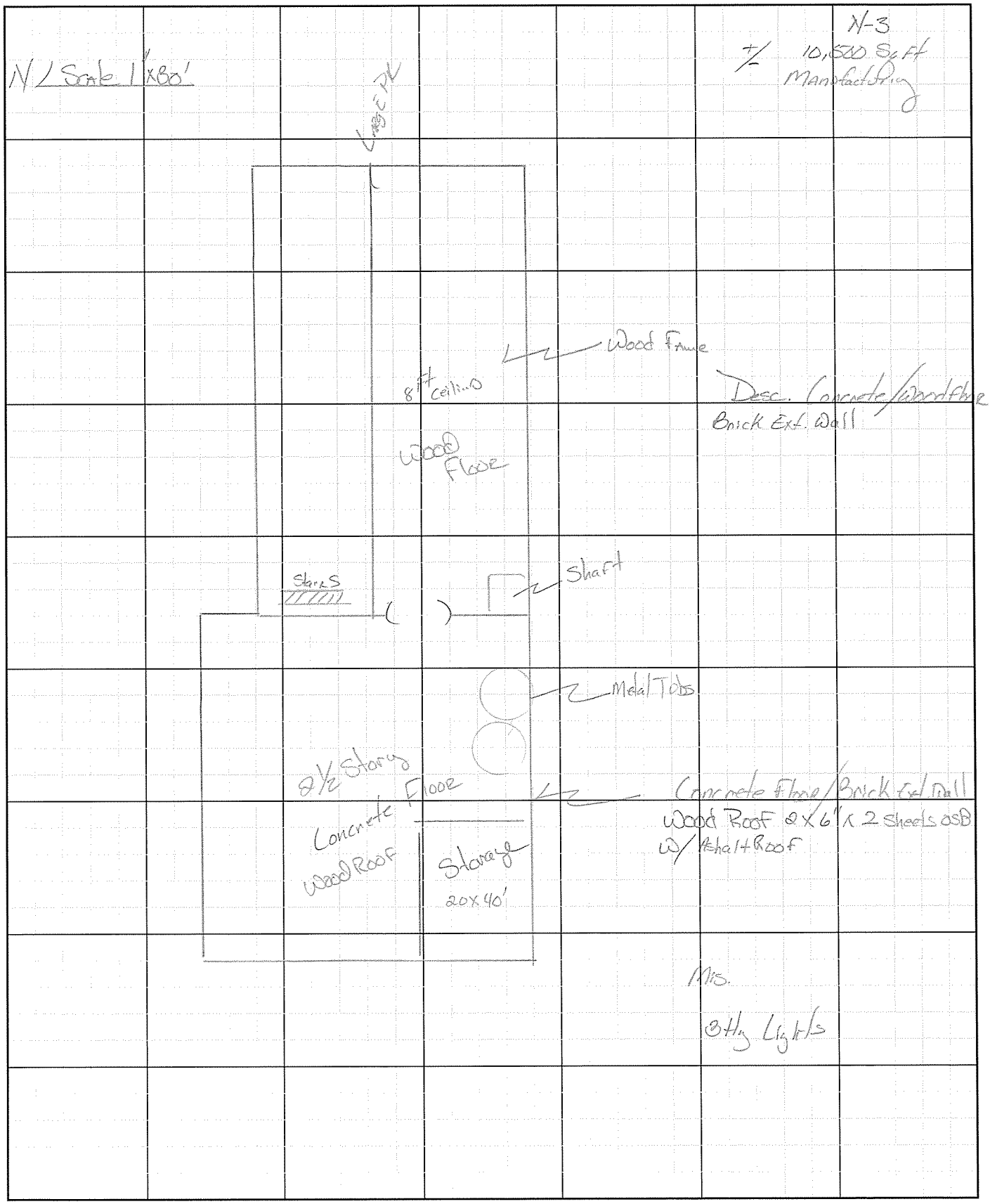
PROJECT Otsego Paper Mill N-3

PROJECT NO. 100925-1200

SHEET NO. 4 OF 5

CALCULATED BY MHH DATE 10-24-2013

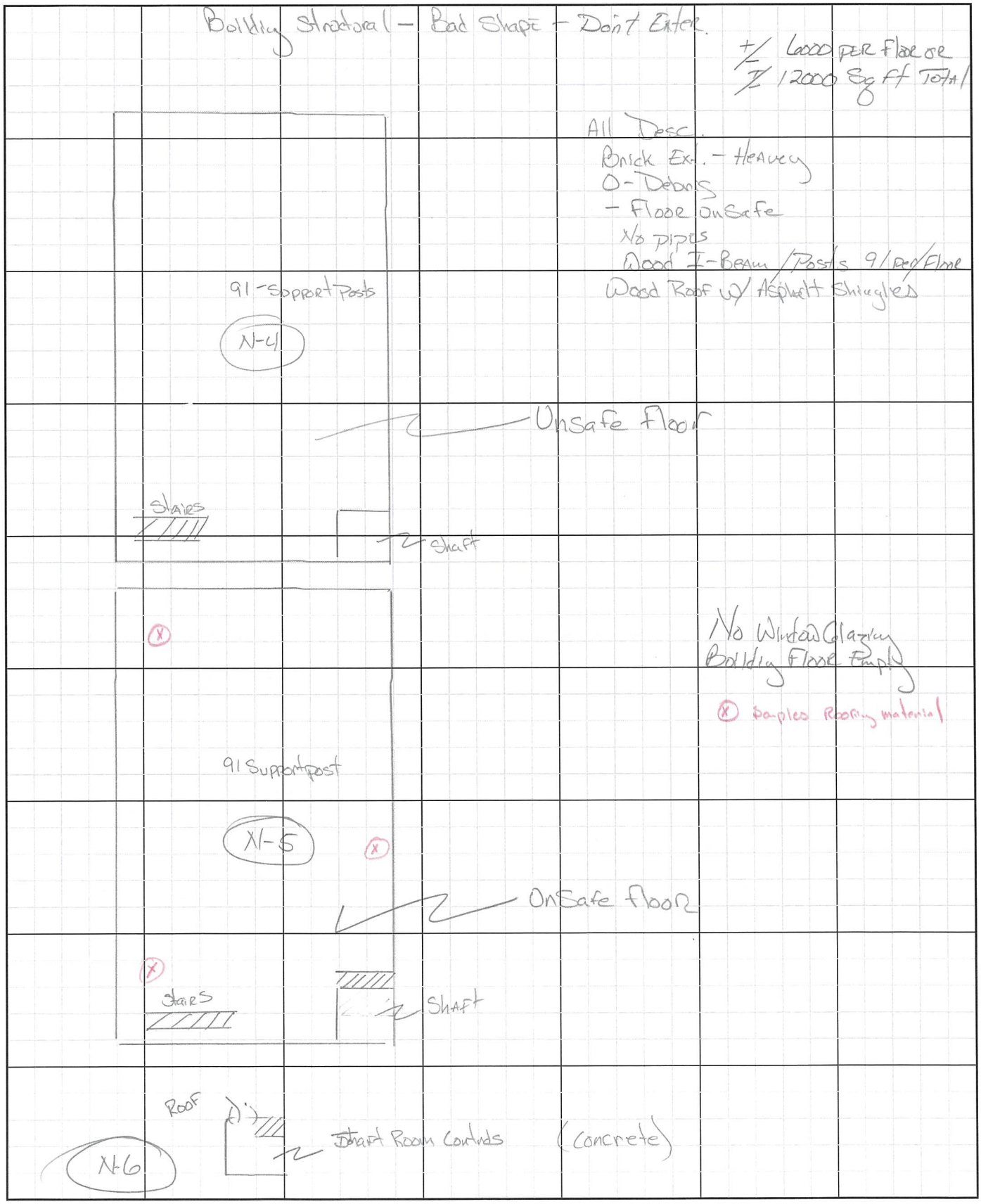
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(N-4, N-5, N-6

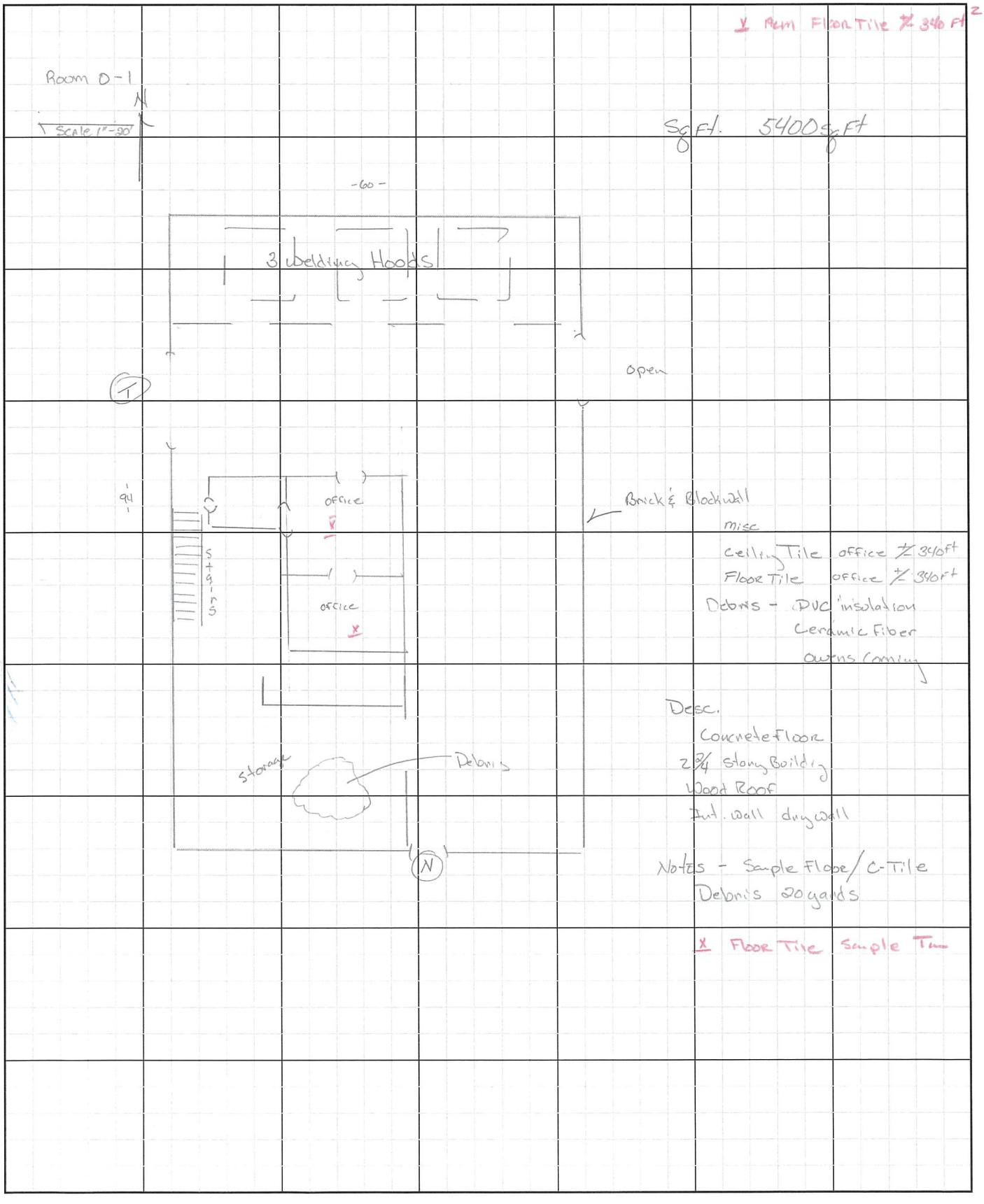
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PROJECT Otsego Paper Mill
PROJECT NO. 100925-1200
SHEET NO. 5 OF 5
CALCULATED BY MMH DATE 4-04-2013
CHECKED BY _____ DATE _____



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PROJECT Otsego Paper Mill O-1
PROJECT NO. 100925 1200
SHEET NO. 2 OF 3
CALCULATED BY MTH DATE 5/2013
CHECKED BY _____ DATE _____



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PROJECT Otsego Paper Mill O-2

PROJECT NO. 100925

SHEET NO. 3 OF 3

CALCULATED BY MTH DATE 5/2013

CHECKED BY _____ DATE _____

O-2

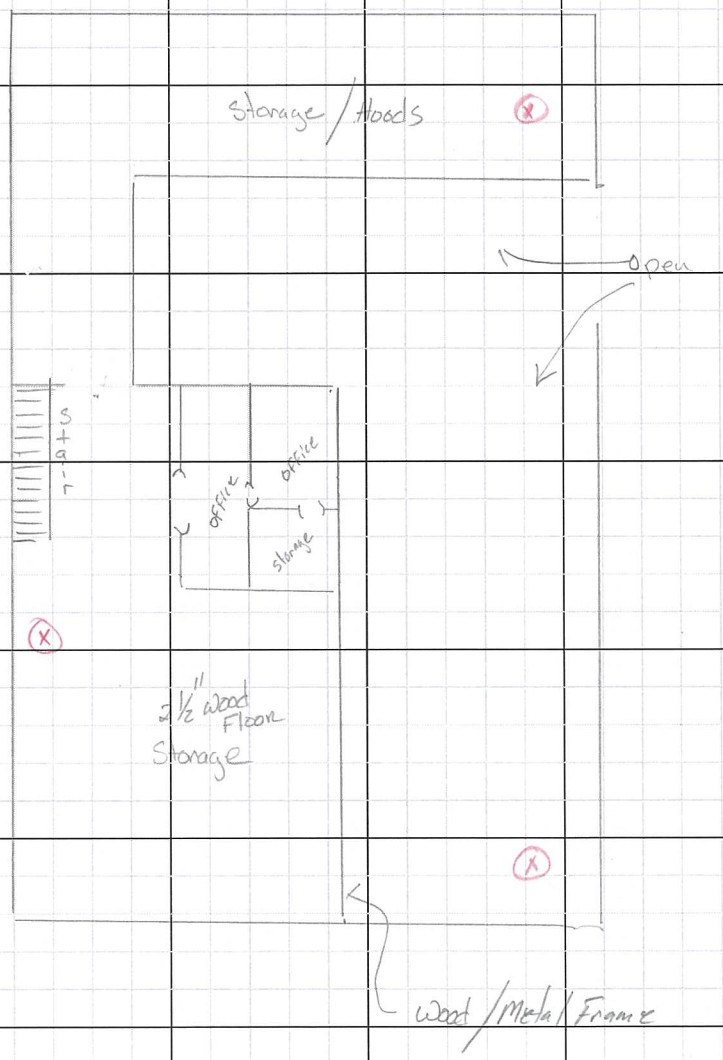
N

Scale 1"-30'

± 2600 sqft

Desc. Brick Ext. Walls
Wood Floor
Wood Roof w/ Shingles

Misc.
15 Hg Lights
C-Tile ceil Tile Armstrong 1'x1'
C-Tile 2½x4'-ESSO

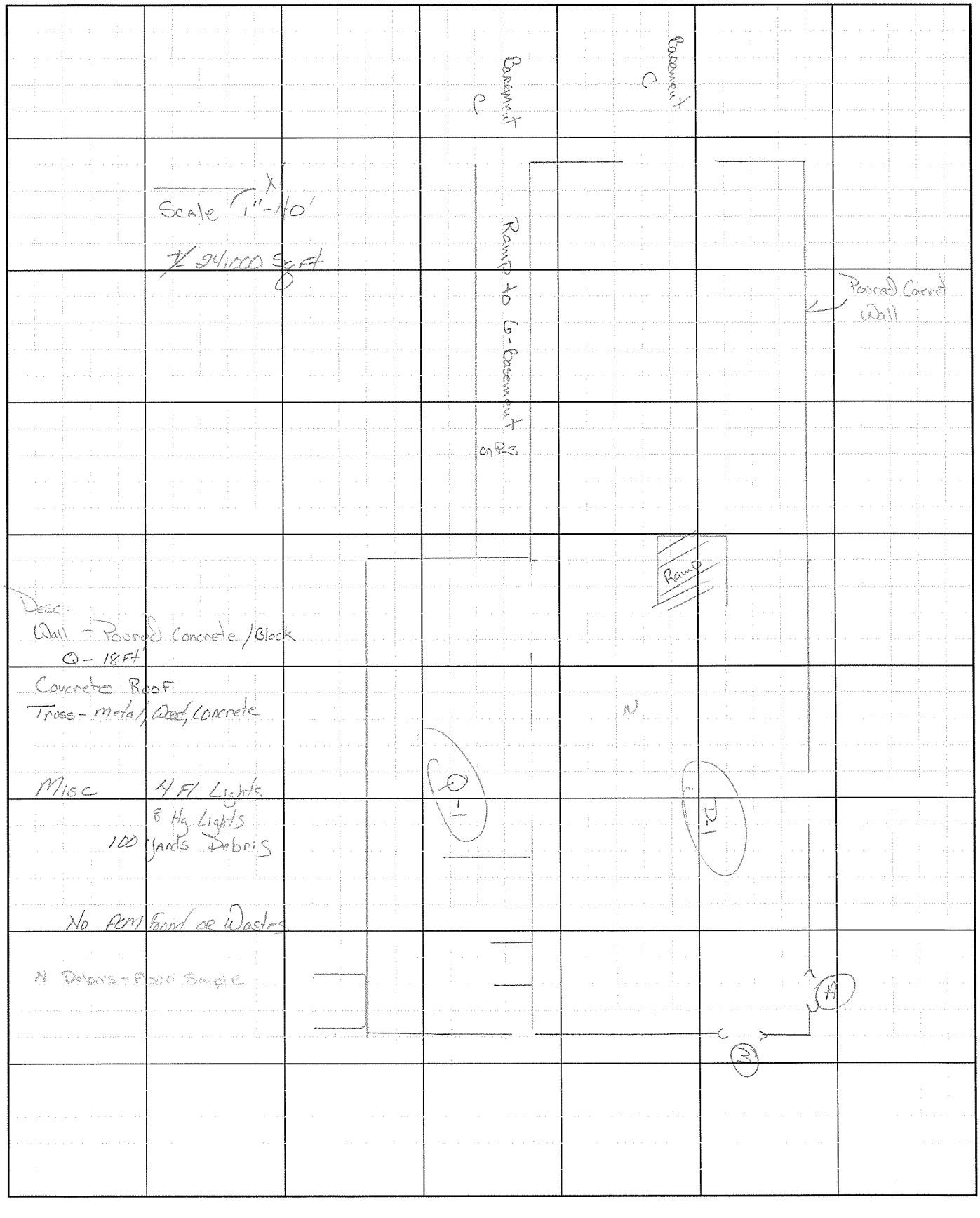



X Samples Black Tabdar material Roof

P&Q -1

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PROJECT Otsego Paper Mill
PROJECT NO. 1009825 - 1200
SHEET NO. 2 OF 4
CALCULATED BY MJH DATE 4-24-2015
CHECKED BY _____ DATE _____



PEO-2

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PROJECT Otsego Paper Mill
PROJECT NO. 105995-1800
SHEET NO. 3 OF 4
CALCULATED BY MTH DATE 4-24-2013
CHECKED BY _____ DATE _____

N
Scale 1"=80'
+/- 6000 sq ft

Heavy Manufacturing

Desc

Part Floor
Wood Floor
Metal/Concrete/Wood
Supports
Walls Brick/Block
Wood ceiling
Misc

P-2

100 yards Debris
Scale

Holding tanks (small)

No ACM found

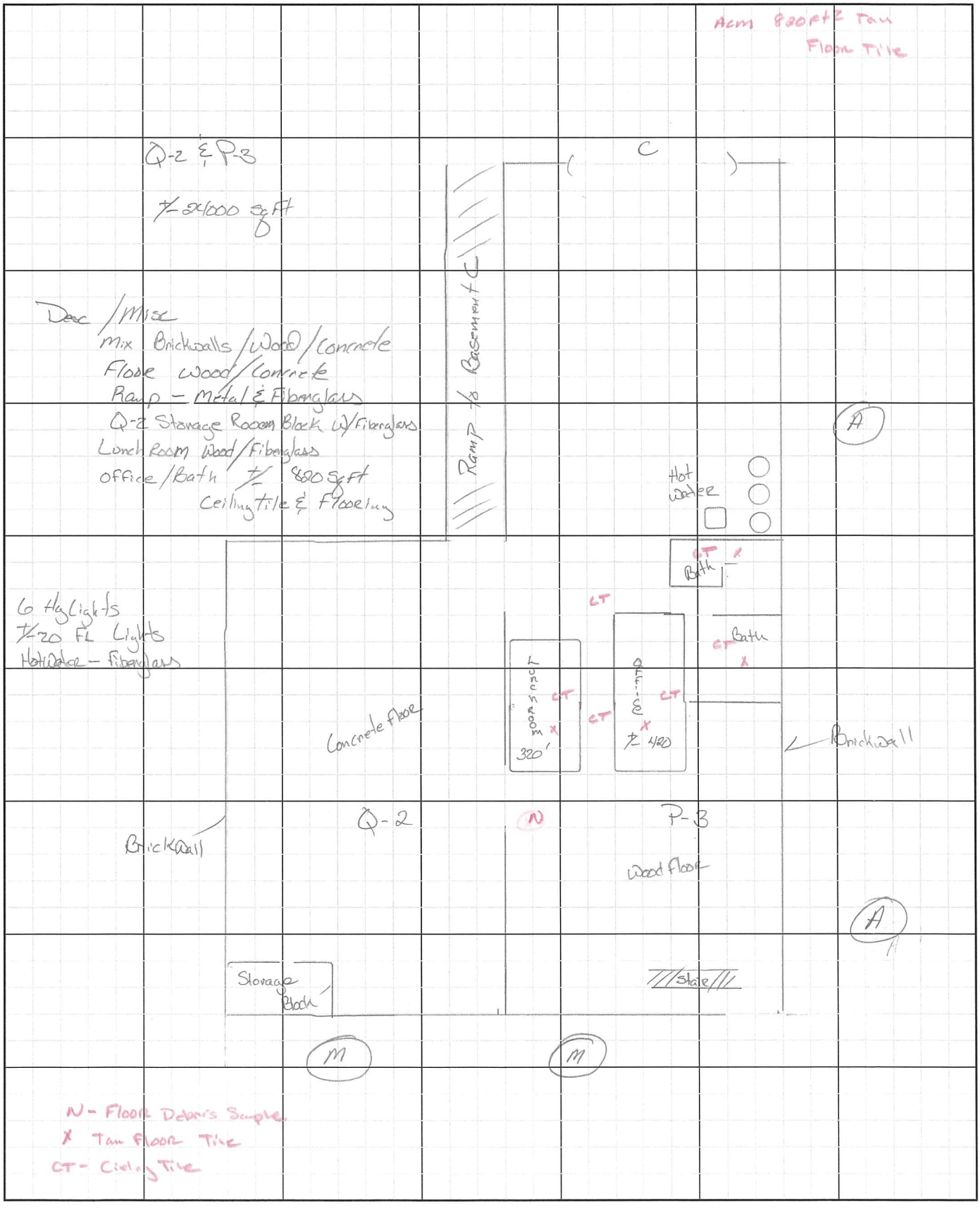
//Stacked//

4

N - Floor Debris sample

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PROJECT Otsego Paper Mill P&Q-3
PROJECT NO. 180485-1200
SHEET NO. 4 OF 4
CALCULATED BY MMH DATE 4-25-15
CHECKED BY _____ DATE _____

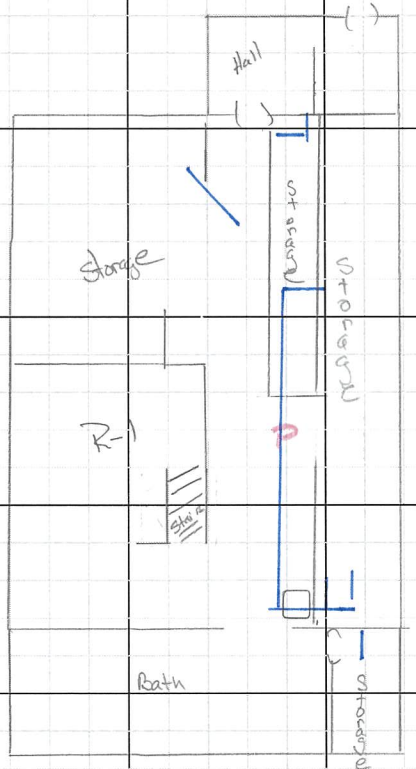


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PROJECT Otsego Paper Mill R-1
PROJECT NO. 105995-1000
SHEET NO. 2 OF 3
CALCULATED BY MTH DATE 4-24-2013
CHECKED BY _____ DATE _____

Pipe Lower 95.5 Acm
R-1 Office/Storage
+/- 6000 Sq Ft
Basement

N / Scale 1"=30'




Pipe Wrap 95.5 Lin ft
2"-4" Acm

Desc.

Concrete Floor
Concrete Walls
Wood/Plywood Interior

Misc.
Acm- Pipe Wrap (Homo -3 Samples)
10 Cubic Yards Debris

P- Pipe Insulation

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PROJECT Otsego Paper Mill

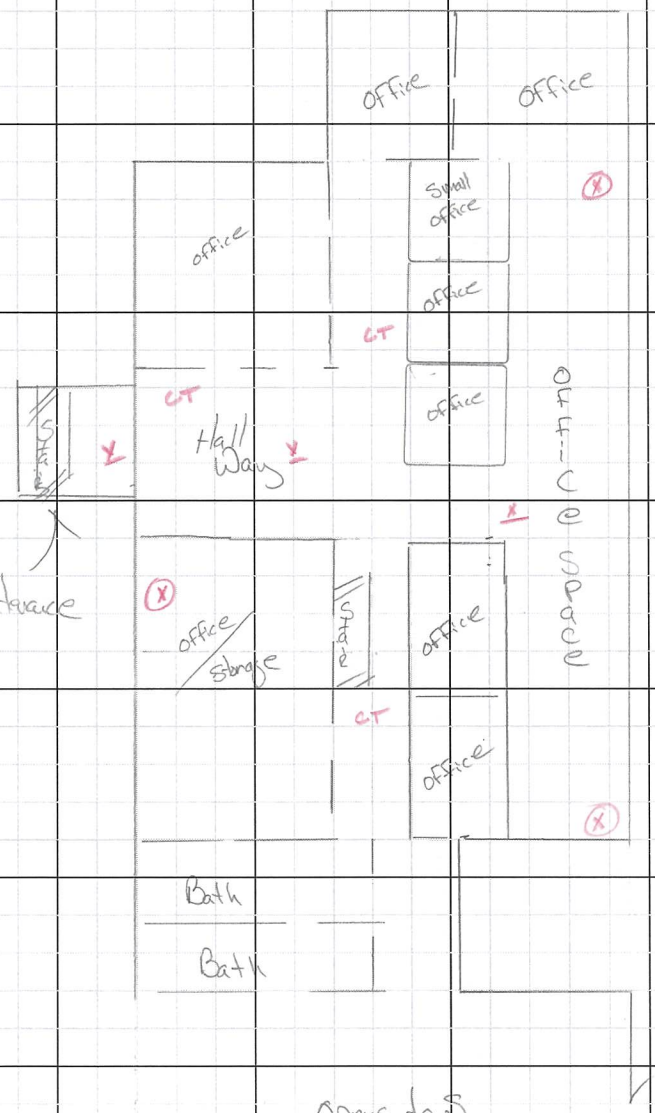
PROJECT NO. 100925-1200 R-2

SHEET NO. 3 OF 3

CALCULATED BY _____ DATE 1-24-2015

CHECKED BY _____ DATE _____

N / 1"=20'




R-2
+/- 6000 Sq Ft

Brick Walls / Drywall
Fiberglass Ins.

Floor Tile 12x12 White/Gray

Ceiling Tile 2x4 Sample
ceiling Tile 1'x1' - Metal

144 Sq Ft - Tile/Ceiling

Sampled

17 FL Lights
Debris - 100 yards

(office - Spaces may be off / debris evenly over)

MTH

(X) Roof material Samples
Black Tabolar

CT - Ceiling Tile

X - Floor Tile

ECT

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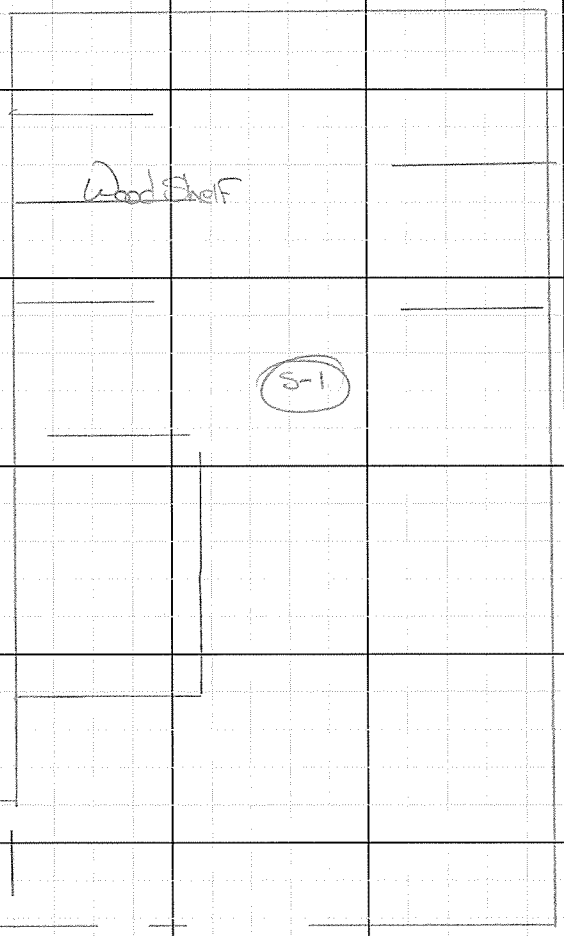
PROJECT Otsego Paper Mill S-1
PROJECT NO. 100985-B00
SHEET NO. 2 OF 4
CALCULATED BY MTH DATE 4-04-2013
CHECKED BY _____ DATE _____

S-1

N / Scale
1"-90Ft

Part - Basement
Old Shop - Repair

+/- 1000 sq ft




(Very old)

Dep,
Mill - Brick & Block
Wood Framing

Misc,
Oil Staining Floor
40 yards Debris
(Wood)

ECT

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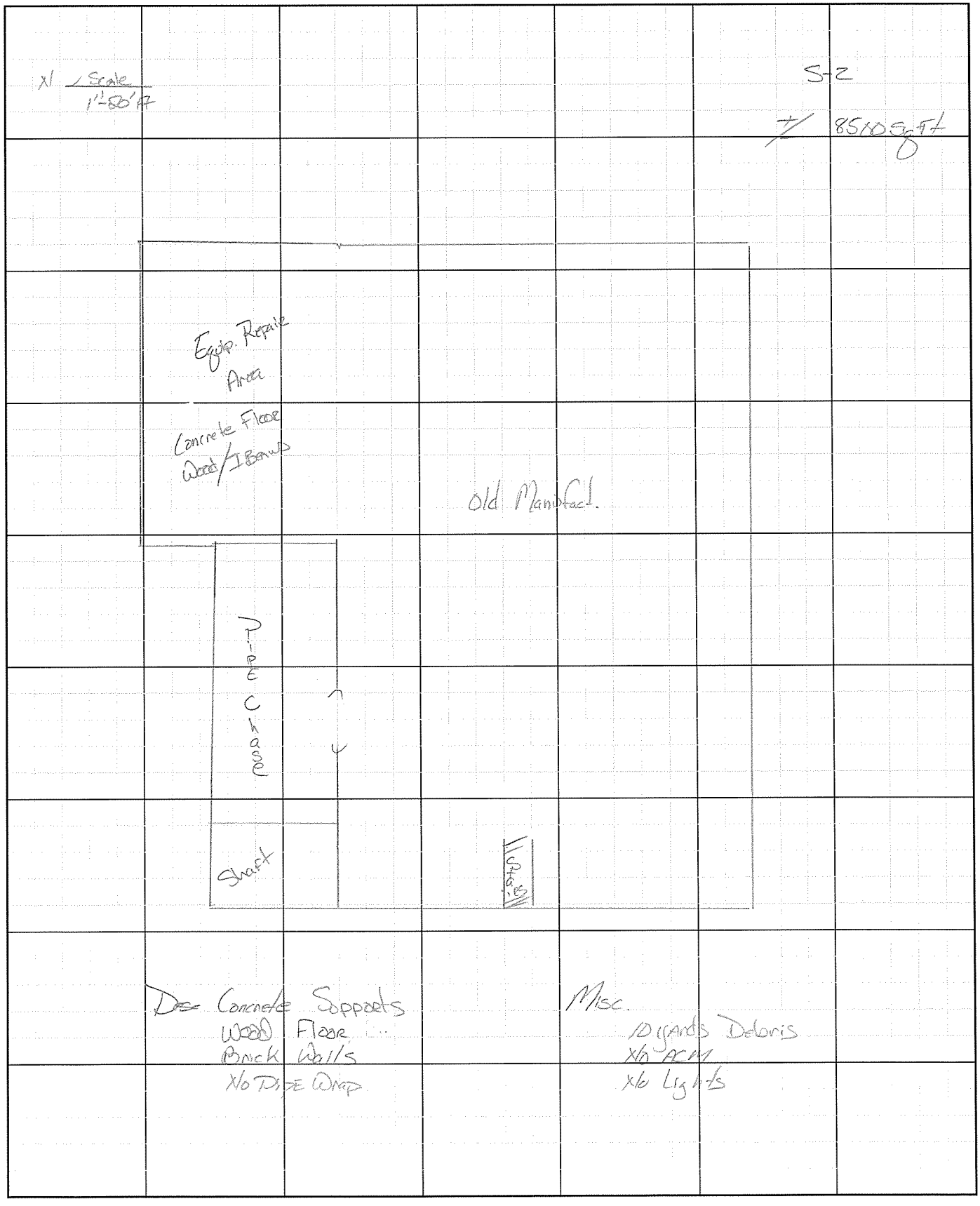
PROJECT Otsego Paper Mill S-2

PROJECT NO. 100985 1000

SHEET NO. 3 OF 4

CALCULATED BY MTL DATE 4/24/2013

CHECKED BY _____ DATE _____



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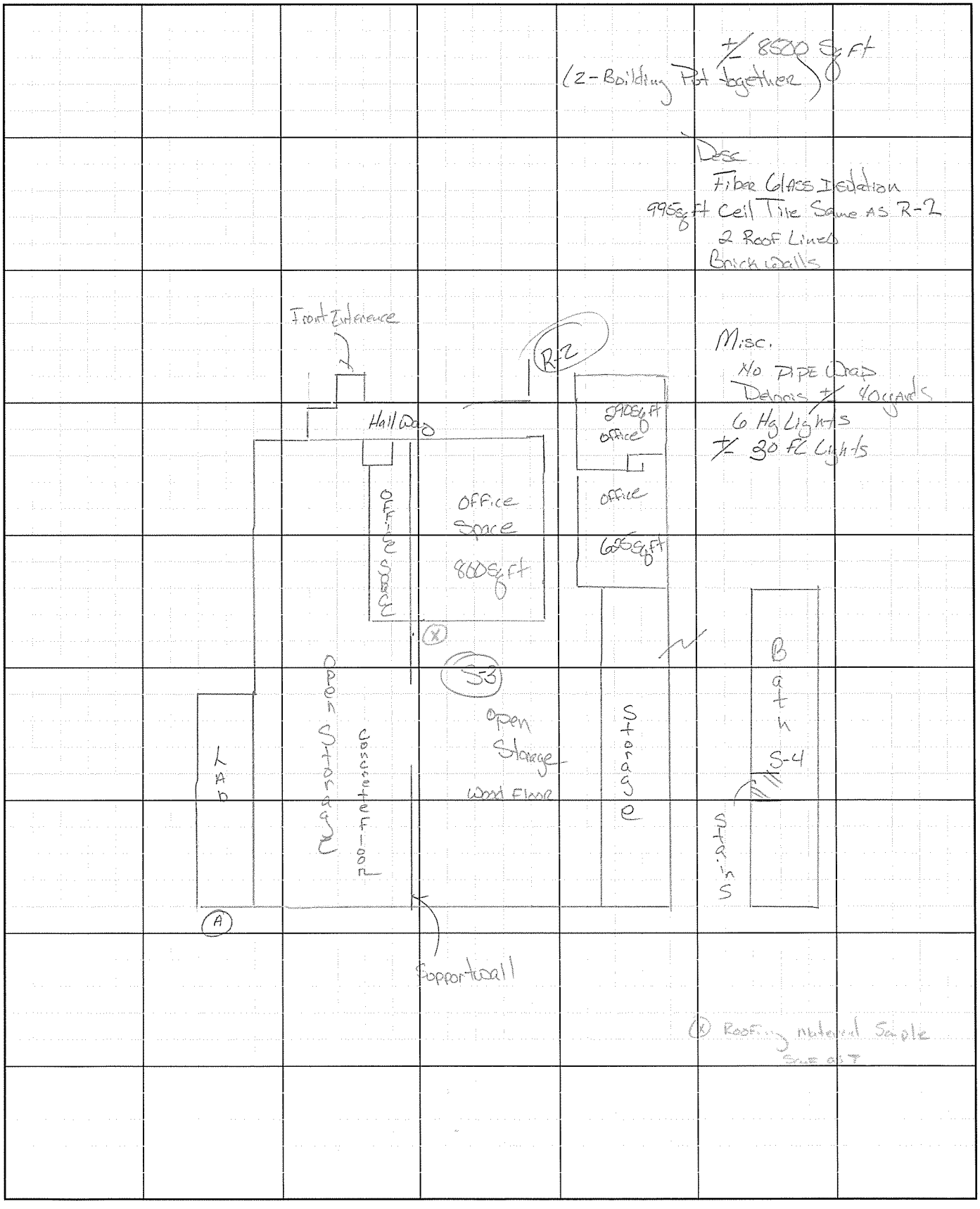
PROJECT Otsego Paper Mill (S-3)

PROJECT NO. 4-24-2013

SHEET NO. 4 OF 4

CALCULATED BY MH DATE 4-24-2013

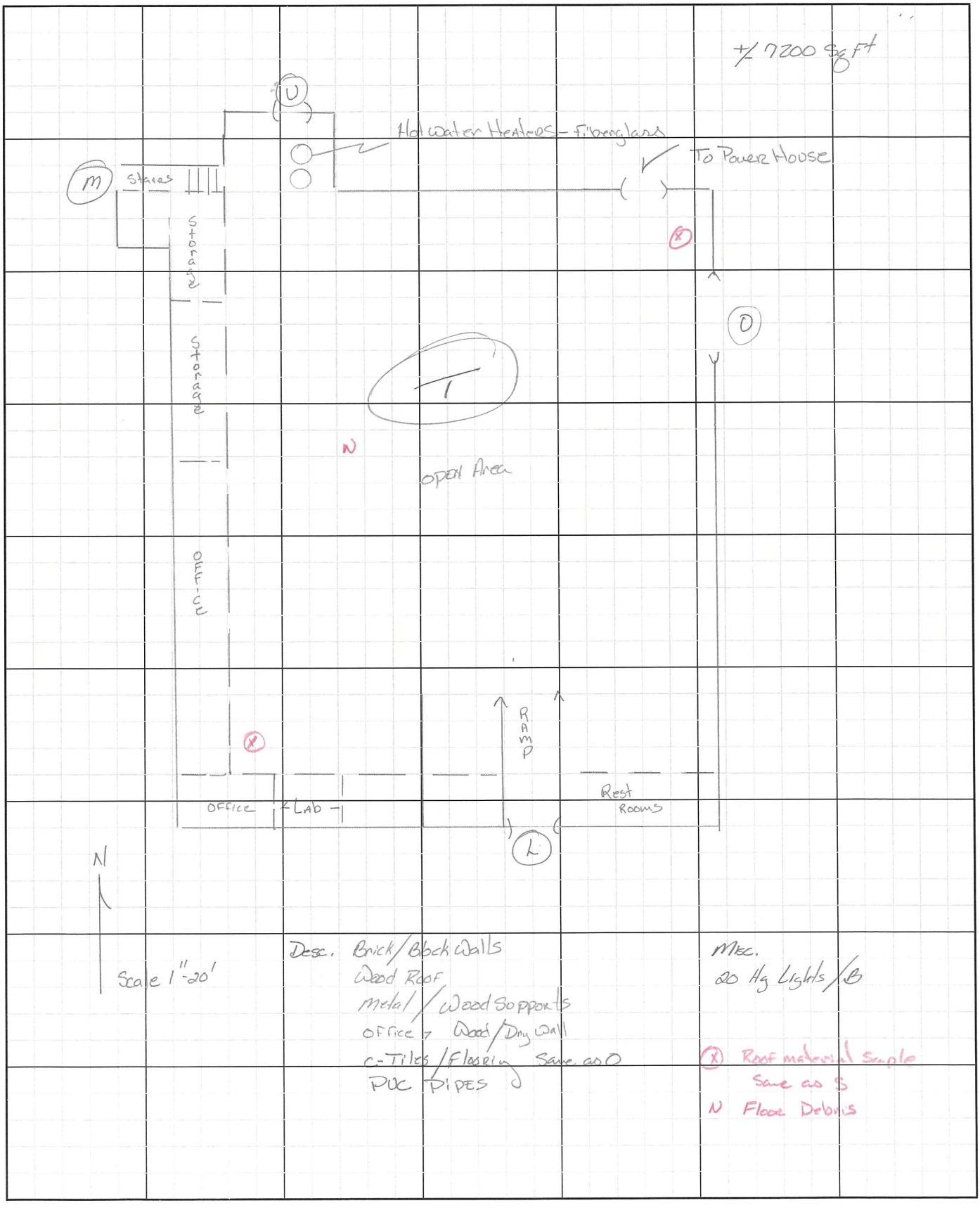
CHECKED BY _____ DATE _____



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PROJECT Osage Paper Mill T
PROJECT NO. 100525
SHEET NO. 2 OF 2
CALCULATED BY MMK DATE 5/2013
CHECKED BY _____ DATE _____



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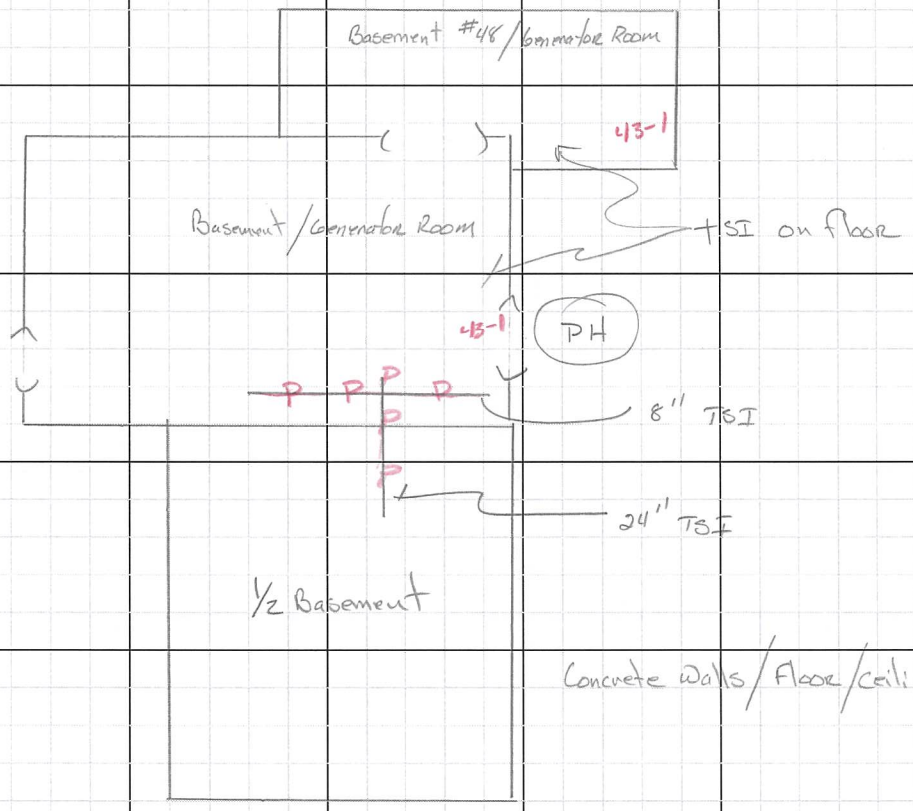
PROJECT Otsego Paper Mill (U-1)
PROJECT NO. 10-0925-1200
SHEET NO. 3 OF 3
CALCULATED BY MTH DATE 2/-24-2015
CHECKED BY _____ DATE _____

PACM - 30 Lin ft Pipe Cover
ACM 18 Lin ft Pipe Cover
N ACM 2160 FT3 Floor Debris

N

Scale 1" = 30'

Area +/- 36000 ft2




Concrete Walls/Floor/ceiling

Notes:

TSI on Floor (+/- 80 yards)
8" Pipe 30 L ft
24" Pipe 18 L ft
Most TSI on Floor
Massive Generator Foundations

P- Pipe Cover, Labeld Asbestos
N - 4311 Floor Debris 2160 FT3

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PROJECT Otsego Paper Mill U-2
PROJECT NO. 100925 1800
SHEET NO. 2 OF 3
CALCULATED BY MFF DATE 1-24-2013
CHECKED BY _____ DATE _____

* Power House - Support Steel has been Removed
ACM Floor Debris - see U-1
(Building is Unsafe)

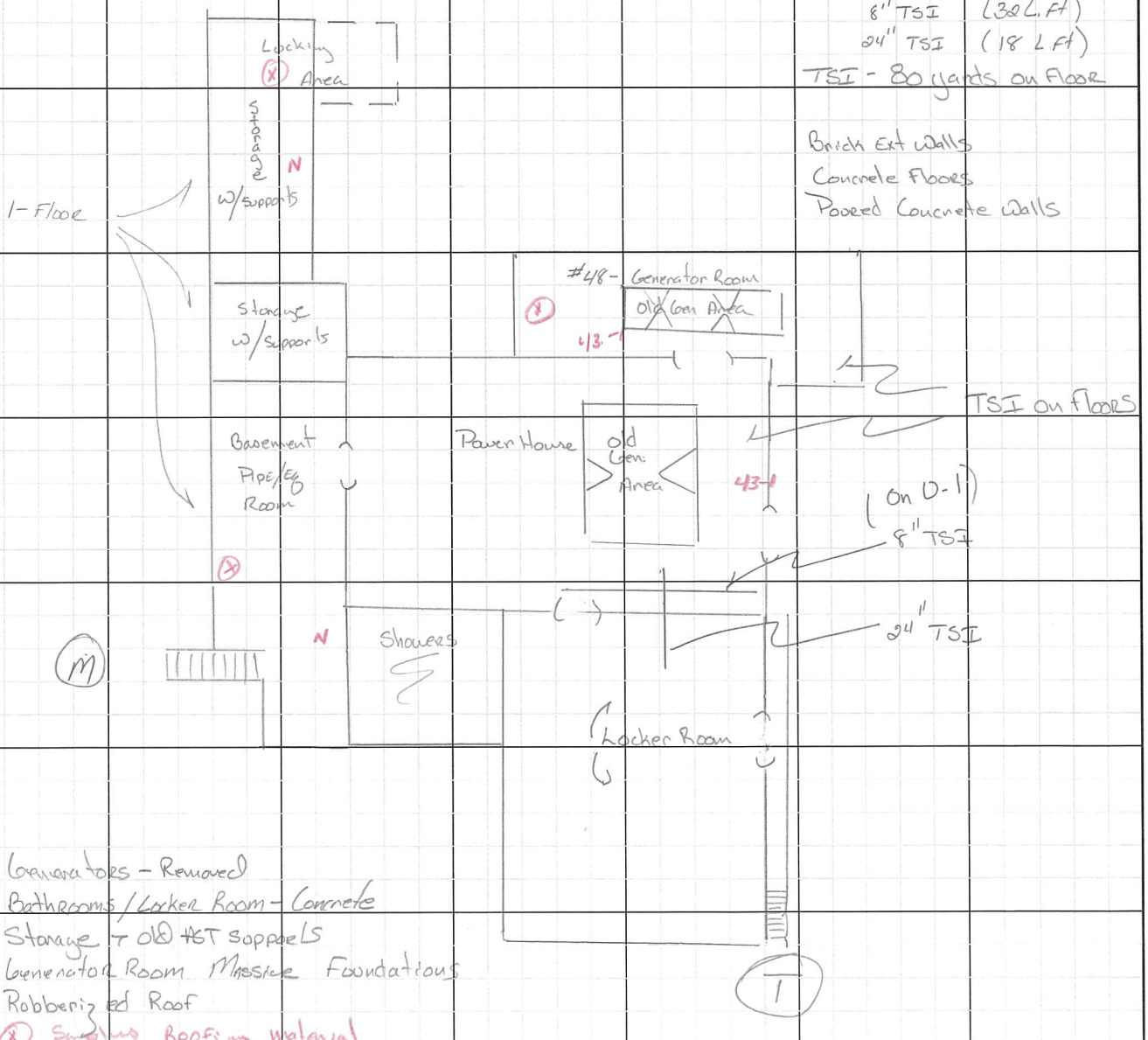
N Scale 1" = 30'
Area +/- 6050 FT²

Notes #48 & Power House Gen. Room
See Powe House - 1 & 2

U-2

Basement Generator Room & #4/8
8" TSI (32 L. FT)
24" TSI (18 L FT)
TSI - 80 yards on Floor

Brick Ext Walls
Concrete Floors
Poured Concrete Walls

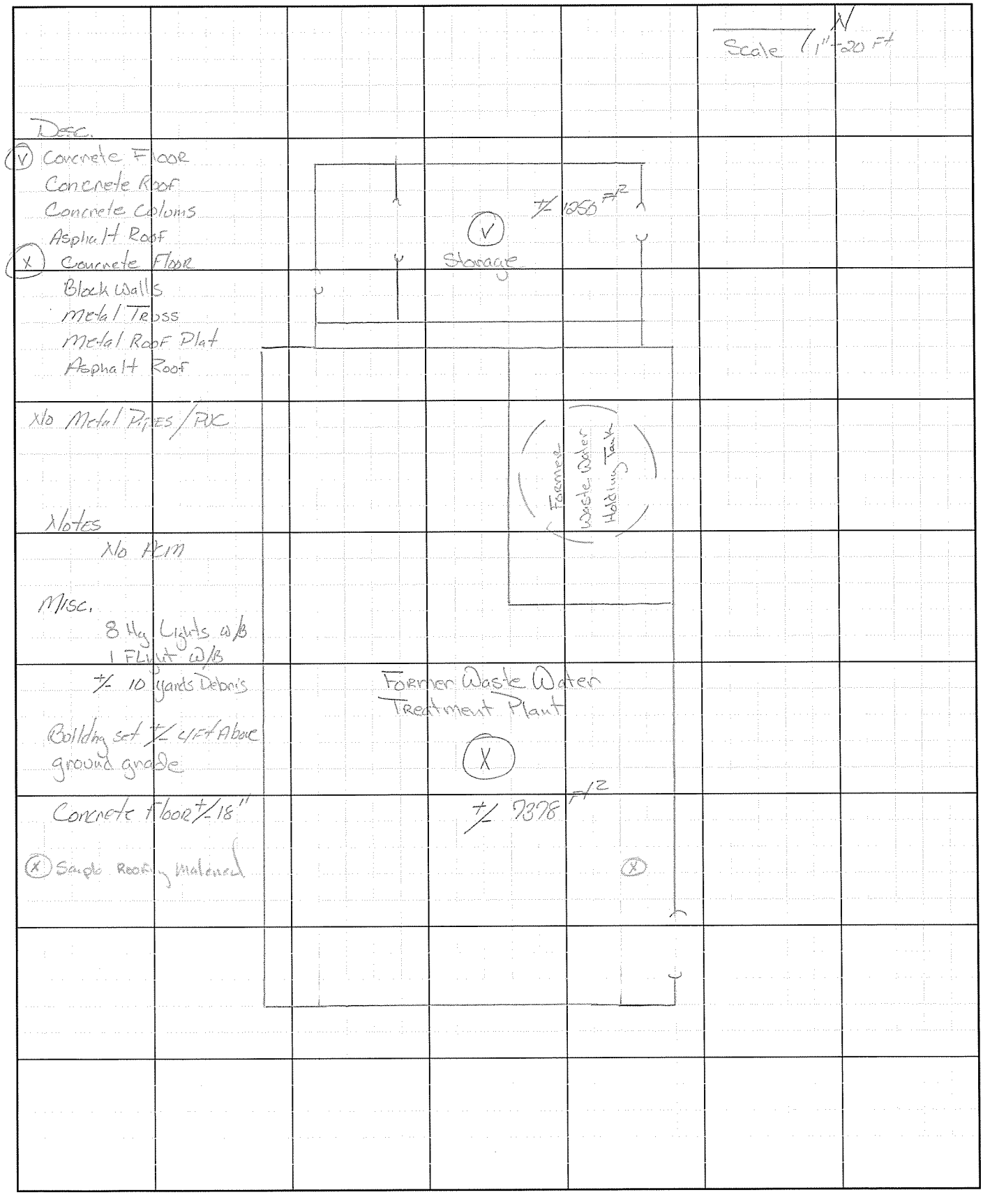



Generators - Removed
Bathrooms / Locker Room - Concrete
Storage - old #6T supports
Generator Room Massive Foundations
Robberized Roof
(X) Suspect Roofing Material
N Floor Debris (43-1) ACM

ECT

Environmental Consulting & Technology, Inc.

PROJECT Otsego Paper Mill (V&X)
PROJECT NO. 100925 1200
SHEET NO. 2 OF 2
CALCULATED BY mh DATE 4-25-13
CHECKED BY _____ DATE _____



ECT

Environmental Consulting & Technology, Inc.

PROJECT Georgia Power Mill W & Y

PROJECT NO. 10-0925 1200

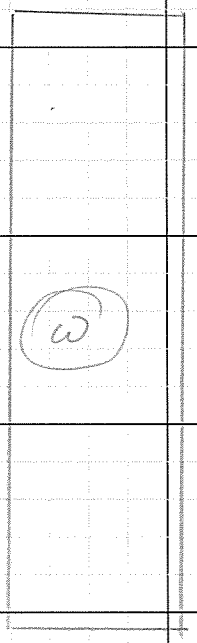
SHEET NO. 2 OF 2

CALCULATED BY MTH DATE 5-8-13

CHECKED BY _____ DATE _____

N

Scale 1"-10'




Food Concession Stand
+/- 256 Ft²
Wood structure
Standard Demolition
+/- 1 yard Debris

Propane Refilling
No-Tanks

Block structure
+/- 150 Ft²
Standard Demolition
+/- 1 yard Debris

ECT

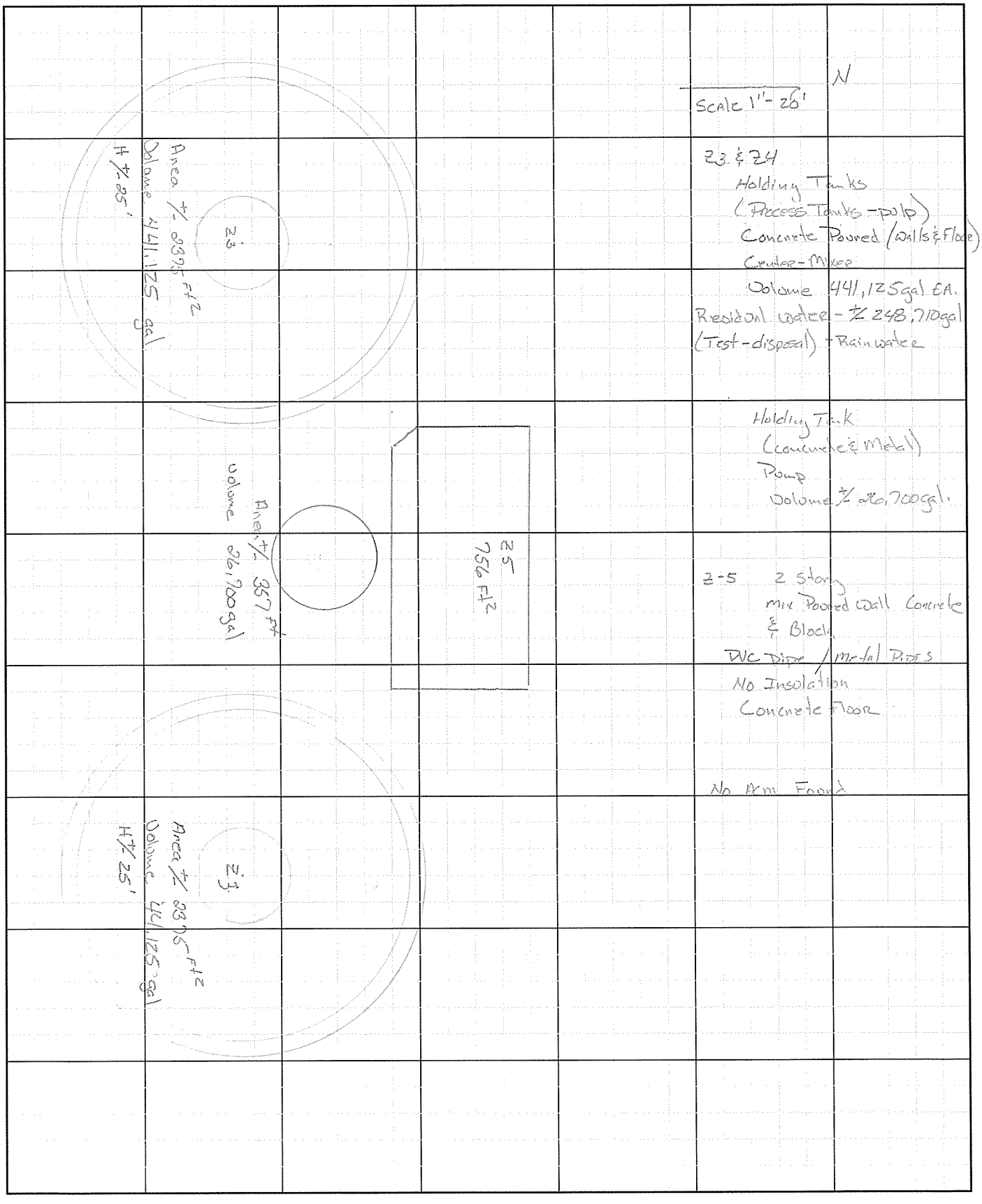
Environmental Consulting & Technology, Inc.

PROJECT Otsego Paper Mill (Misc + Z1&2)
PROJECT NO. 10925 1200
SHEET NO. 2 OF
CALCULATED BY mth DATE 5-1-2015
CHECKED BY DATE

| | | | | | | |
|---|---|---|---|---|---|---|
| | Misc. SE- Xb Name or ID Code | N Scale 1"=20' | | | | |
| | | | Old Building - Remove To Slab +/- 640 Sq Ft + Foundations, Estimate | | | |
| | | | 270 Tons Concrete NO - Asbestos | | | |
| Z | | | Old Pump House | | | |
| | Z | | +/- 480 Sq Ft 2 stone - 1 under ground @ water Edge + Misc. Metal Dock supports Desc. 1 Ft Concrete Block & Brick Walls No pipes 10 yards Misc. Debris Concrete Roof & Floor | | | |
| | Z-2 | | | Water/Waste Water Process Tank 1 Ft Concrete Walls 15 Ft Deep 10 Yards Misc. Debris | | |
| | | | | +/- 1809 Ft2 +/- 54,000 gallons Rain Water - Permit | | |
| | | | | +/- 342 Tons Concrete Xlo Rem | | |

ECT
Environmental Consulting & Technology, Inc.

PROJECT Tacoma Paper Mill (22-25)
PROJECT NO. 10925 01200
SHEET NO. 2 OF 2
CALCULATED BY MTH DATE 5-1-2013
CHECKED BY _____ DATE _____



# Appendix F

# Field Assessment Logs

On-Site

ECT Inspector Name/#: Michael T. Hebert/A40056 (Y)/N
Jason Bartholomew/A36772 Y/N

Date: 5-2-2013

Page: 1 of 6

ECT
Environmental Consulting & Technology, Inc.

Facility Name/Address: Former Rock Tenn Otsego Facility
431 Helen Ave., Otsego, Michigan
Paper Mill and Power Plant, Tax IDs 54-015-006-00/54-575-001-00/54-800-001-00

Location Number/Building ID: Power House Type: F-2 (Field Sheet #) DH 2B, 2C, 2D, 2A, F-1

Inspection Type: New Re-Insp.

| | | Desc./Color/Area (F/W/C) | | Units | Desc./Cond.: | Risk | Labled | Volume |
|---|---|---|---|---|---|---|---|---|
| Type ACM/Color/Volume: | 1 | M/S/TSI | c: Pipe 4" gray/white | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | 35 |
| Type ACM/Color/Volume: | 2 | M/S/TSI | c: Pipe 16" gray/white | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | 21 |
| Type ACM/Color/Volume: | 3 | M/S/TSI | c: Floor Debris gray-white (Tons) | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | 320 Tons |
| Type ACM/Color/Volume: | 4 | M/S/TSI | c: AST white | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | 520 Tons |
| Type ACM/Color/Volume: | 5 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 6 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 7 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 8 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 9 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 10 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |

1 - Immediate Attention (Poor Condition)
2 - Near Term Attention (NF) Limited Risk
3 - Wear - Regular Maintenance
4 - Limited Risk (inspection)
FD - Remove before Demo
NF - Remove during Demo
Contact: High (CH)/Moderate (CM)/Low(CL)
Vibration: High (VH)/Moderate (VM)/Low(VL)
Air Erosion: High (AH)/Moderate (AM)/Low(AL)

Inspector Name: Michael T. Hebert Exp. 2014
ECT - Lansing MI
Signed/Date of Inspection: 5-2-13

Diagram Attached: (Yes)/No

Notes: Floor Debris - covered w TSI Debris, (washed down to floor)

| Photo Log | |
|---|---|
| # | # |
| # | # |
| # | # |
| # | # |
| # | # |
| # | # |
| # | # |

Sample Log
COC #

| | |
|---|---|
| 1 | 6 |
| 2 | 7 |
| 3 | 8 |
| 4 | 9 |
| 5 | 10 |

On-Site

ECT Inspector Name/#: Michael T. Hebert/A40056 (Y/N) Jason Bartholomew/A36772 Y/N

Date: 5-2-2013



ECT Environmental Consulting & Technology, Inc.

Facility Name/Address: Former Rock Tenn Otsego Facility
431 Helen Ave., Otsego, Michigan
Paper Mill and Power Plant, Tax IDs 54-015-006-00/54-575-001-00/54-800-001-00

Location Number/Building ID: Power House Type: F-2 (Field Sheet #) F-1, 2A & 2D

Inspection Type: New Re-Insp.

| | | Desc./Color/Area (F/W/C) | Units | Desc./Cond.: | Risk | Labled | Volume |
|---|---|---|---|---|---|---|---|
| Type ACM/Color/Volume: | 1 | (M)/S/TSI c: Floor Debris (132 Tons) | Lin. Ft/Ft²/ft³ | (CH) CM CL/VH VM VL/AH AM AL | (1)/2/3/4 | Y/(N) | 132 Tons |
| Type ACM/Color/Volume: | 2 | M/(S)/TSI c: Fire Brick & Motor (345 Tons) | Lin. Ft/Ft²/ft³ | (CH) CM CL/VH VM VL/AH AM AL | (1)/2/3/4 | Y/(N) | 345 Tons |
| Type ACM/Color/Volume: | 3 | M/S/(TSI) c: Boiler Insulation — Behind steel Plates | Lin. Ft/Ft²/ft³ | (CH) CM CL/VH VM VL/AH AM AL | (1)/2/3/4 | Y/(N) | 6768 |
| Type ACM/Color/Volume: | 4 | M/S/(TSI) c: Heat Duct - Ext coating / Condenser Units | Lin. Ft/Ft²/ft³ | (CH) CM CL/VH VM VL/AH AM AL | (1)/2/3/4 | Y/(N) | 1668 |
| Type ACM/Color/Volume: | 5 | M/S/(TSI) c: Gaskets - steam stack Pipes 8" Pipes (gaskets) | Lin. Ft/Ft²/ft³ | (CH) CM CL/VH VM VL/AH AM AL | (1)/2/3/4 | Y/(N) | 864 |
| Type ACM/Color/Volume: | 6 | M/S/(TSI) c: Stack / Smoke Gasket PACM | Lin. Ft/Ft²/ft³ | (CH) CM CL/VH VM VL/AH AM AL | (1)/2/3/4 | Y/(N) | 324 Ft |
| Type ACM/Color/Volume: | 7 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 8 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 9 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 10 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |

1 - Immediate Attention (Poor Condition)
2 - Near Term Attention (NF) Limited Risk
3 - Wear - Regular Maintenance
4 - Limited Risk (inspection)
FD - Remove before Demo
NF - Remove during Demo
Contact: High (CH)/Moderate (CM)/Low(CL)
Vibration: High (VH)/Moderate (VM)/Low(VL)
Air Erosion: High (AH)/Moderate (AM)/Low(AL)

Inspector Name: Michael T. Hebert Exp. 2014
ECT - Lansing MI

Signed/Date of Inspection: 5-2-2013

Diagram Attached: (Yes/No)

Notes: Inside Boilers Unknown (Estimate +/- Surface Area 1000 Ft²) PACM
Gaskets +/- 300 Lin Ft. Inside Boiler PACM (Confirm)

| Photo Log | |
|---|---|
| # | # |
| # | # |
| # | # |
| # | # |
| # | # |
| # | # |
| # | # |

Sample Log
COC #

| | |
|---|---|
| 1 | 6 |
| 2 | 7 |
| 3 | 8 |
| 4 | 9 |
| 5 | 10 |

On-Site

ECT Inspector Name/#: Michael T. Hebert/A40056 (Y/N) Jason Bartholomew/A36772 (Y/N)

Date: 4-17

Page: 1 of 2

(A)

ECT
Environmental Consulting & Technology, Inc.

Facility Name/Address: Former Rock Tenn Otsego Facility
431 Helen Ave., Otsego, Michigan
Paper Mill and Power Plant, Tax IDs 54-015-006-00/54-575-001-00/54-800-001-00

Location Number/Building ID: A Type: Crane House (Field Sheet #)

Inspection Type: (New) Re-Insp.

| | | Desc./Color/Area (F/W/C) | Units | Desc./Cond.: | Risk | Labled | Volume |
|---|---|---|---|---|---|---|---|
| Type ACM/Color/Volume: | 1 | (M)/S/TSI c: White Floor Tile | (Lin. Ft/Ft²/ft³) | CH CM (CL)/VH VM (VL)/AH AM (AL) | 1/2/3/(4) | (Y)/N | 225 |
| Type ACM/Color/Volume: | 2 | (M)/S/TSI c: Floor Tile (Tan) under equipment (Stage 2) | (Lin. Ft/Ft²/ft³) | CH CM (CL)/VH VM (VL)/AH AM (AL) | 1/2/3/(4) | Y/(N) | ± 1000 |
| Type ACM/Color/Volume: | 3 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 4 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 5 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 6 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 7 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 8 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 9 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 10 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |

1 - Immediate Attention (Poor Condition)
2 - Near Term Attention (NF) Limited Risk
3 - Wear - Regular Maintenance
4 - Limited Risk (inspection)
FD - Remove before Demo
NF - Remove during Demo
Contact: High (CH)/Moderate (CM)/Low(CL)
Vibration: High (VH)/Moderate (VM)/Low(VL)
Air Erosion: High (AH)/Moderate (AM)/Low(AL)

Inspector Name: Michael T. Hebert Exp. 2014
ECT - Lansing MI

Signed/Date of Inspection: 4-17

Diagram Attached: (Yes)/No

Notes: Samwell Room Floor 9x9"
No pipe wrap
Brick/Block walls
Samwell Room Plywood
Steel Supports
Wood Roof

| Photo Log | | | |
|---|---|---|---|
| # | #1 | # | |
| # | #2 | # | |
| # | | # | |
| # | | # | |
| # | | # | |
| # | | # | |
| # | | # | |

Sample Log
COC #

| | | | |
|---|---|---|---|
| 1 | A-1 (3 samples) | 6 | |
| 2 | D&A Samples | 7 | |
| 3 | | 8 | |
| 4 | | 9 | |
| 5 | | 10 | |

On-Site

ECT Inspector Name/#: Michael T. Hebert/A40056 Y/N
Jason Bartholomew/A36772 Y/N

Date: 4-17-13

Page: 1 of 2

B-1 & B-2

ECT
Environmental Consulting & Technology, Inc.

Facility Name/Address: Former Rock Tenn Otsego Facility
431 Helen Ave., Otsego, Michigan
Paper Mill and Power Plant, Tax IDs 54-015-006-00/54-575-001-00/54-800-001-00

Location Number/Building ID: B-1 & B-2 Type: Loading Dock (Field Sheet #)

Inspection Type: New Re-Insp.

| | | Desc./Color/Area (F/W/C) | | Units | Desc./Cond.: | Risk | Labled | Volume |
|---|---|---|---|---|---|---|---|---|
| Type ACM/Color/Volume: | 1 | M/S/TSI | c: None | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 2 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 3 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 4 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 5 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 6 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 7 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 8 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 9 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 10 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |

1 - Immediate Attention (Poor Condition)
2 - Near Term Attention (NF) Limited Risk
3 - Wear - Regular Maintenance
4 - Limited Risk (inspection)
FD - Remove before Demo
NF - Remove during Demo
Contact: High (CH)/Moderate (CM)/Low(CL)
Vibration: High (VH)/Moderate (VM)/Low(VL)
Air Erosion: High (AH)/Moderate (AM)/Low(AL)

Inspector Name: Michael T. Hebert Exp. 2014
ECT - Lansing MI

Signed/Date of Inspection: 4-17-2013

Diagram Attached: Yes/No

Notes: NO ACM
Brick/Block/Steel Roof
OSB/ply wood rd
1 - Story High

| Photo Log | |
|---|---|
| # 3 | # |
| # 4 | # |
| # | # |
| # | # |
| # | # |
| # | # |
| # | # |

Sample Log
COC #

| | |
|---|---|
| 1 | 6 |
| 2 | 7 |
| 3 | 8 |
| 4 | 9 |
| 5 | 10 |

On-Site

Page: 1 of 2

ECT Inspector Name/#: Date: 4-17

Michael T. Hebert/A40056 (Y)/N

Jason Bartholomew/A36772 (Y)/N

ECT Environmental Consulting & Technology, Inc.

(C)

Facility Name/Address: Former Rock Tenn Otsego Facility
431 Helen Ave., Otsego, Michigan
Paper Mill and Power Plant, Tax IDs 54-015-006-00/54-575-001-00/54-800-001-00

Location Number/Building ID C. Type: Dave House (Field Sheet #)

Inspection Type: New Re-Insp.

| | | | Desc./Color/Area (F/W/C) | Units | Desc./Cond.: | Risk | Labled | Volume |
|---|---|---|---|---|---|---|---|---|
| Type ACM/Color/Volume: | 1 | M/S/TSI | c: NonF FD | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 2 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 3 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 4 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 5 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 6 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 7 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 8 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 9 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 10 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |

1 - Immediate Attention (Poor Condition)
2 - Near Term Attention (NF) Limited Risk
3 - Wear - Regular Maintenance
4 - Limited Risk (inspection)
FD - Remove before Demo
NF - Remove during Demo
Contact: High (CH)/Moderate (CM)/Low(CL)
Vibration: High (VH)/Moderate (VM)/Low(VL)
Air Erosion: High (AH)/Moderate (AM)/Low(AL)

Inspector Name: Michael T. Hebert Exp. 2014
ECT - Lansing MI

Signed/Date of Inspection: 4-17-2014

Diagram Attached: (Yes)/No

| Notes: | Photo Log | |
|---|---|---|
| 93 Lin Ft Fiberglass Pipe wraps East wall | # 5 | # |
| Concrete Floor | # 6 | # |
| Brick/Block walls | # | # |
| Metal Truss | # | # |
| Steel Roof | # | # |
| | # | # |
| | # | # |

Sample Log
COC #

| | |
|---|---|
| 1 | 6 |
| 2 | 7 |
| 3 | 8 |
| 4 | 9 |
| 5 | 10 |

On-Site

ECT Inspector Name/#: Michael T. Hebert/A40056 Y/N
Jason Bartholomew/A36772 Y/N

Date: 4-17

Page: 1 of 1

ECT
Environmental Consulting & Technology, Inc.

D

Facility Name/Address: Former Rock Tenn Otsego Facility
431 Helen Ave., Otsego, Michigan
Paper Mill and Power Plant, Tax IDs 54-015-006-00/54-575-001-00/54-800-001-00

Location Number/Building ID: D Type: (Field Sheet #)

Inspection Type: New Re-Insp.

| | | Desc./Color/Area (F/W/C) | | Units | Desc./Cond.: | Risk | Labled | Volume |
|---|---|---|---|---|---|---|---|---|
| Type ACM/Color/Volume: | 1 | M/S/TSI | c: None ID | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 2 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 3 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 4 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 5 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 6 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 7 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 8 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 9 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 10 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |

1 - Immediate Attention (Poor Condition)
2 - Near Term Attention (NF) Limited Risk
3 - Wear - Regular Maintenance
4 - Limited Risk (inspection)
FD - Remove before Demo
NF - Remove during Demo
Contact: High (CH)/Moderate (CM)/Low(CL)
Vibration: High (VH)/Moderate (VM)/Low(VL)
Air Erosion: High (AH)/Moderate (AM)/Low(AL)

Inspector Name: Michael T. Hebert Exp. 2014
ECT - Lansing MI

Signed/Date of Inspection: 4-17-2013

Diagram Attached: Yes/No

Notes: 20x30 Hall way with Stairs Block/Brick
Metal Roof
1 Yard Debris

| Photo Log | |
|---|---|
| # | # |
| # | # |
| # | # |
| # | # |
| # | # |
| # | # |
| # | # |

Sample Log
COC #

| | |
|---|---|
| 1 | 6 |
| 2 | 7 |
| 3 | 8 |
| 4 | 9 |
| 5 | 10 |

On-Site

ECT Inspector Name/#: Michael T. Hebert/A40056 Y/N
Jason Bartholomew/A36772 Y/N

Date: 4-17

Page: 1 of 2

E-1 thr E-4

ECT
Environmental Consulting & Technology, Inc.

Facility Name/Address: Former Rock Tenn Otsego Facility
431 Helen Ave., Otsego, Michigan
Paper Mill and Power Plant, Tax IDs 54-015-006-00/54-575-001-00/54-800-001-00

Location Number/Building ID: E-1, E-2, E-3 + E-4 Hall Type: Warehouse (Field Sheet #)

Inspection Type: New Re-Insp.

| | | Desc./Color/Area (F/W/C) | | Units | Desc./Cond.: | Risk | Labled | Volume |
|---|---|---|---|---|---|---|---|---|
| Type ACM/Color/Volume: | 1 | M/S/TSI | c: None ID | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 2 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 3 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 4 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 5 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 6 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 7 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 8 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 9 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 10 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |

1 - Immediate Attention (Poor Condition)
2 - Near Term Attention (NF) Limited Risk
3 - Wear - Regular Maintenance
4 - Limited Risk (inspection)
FD - Remove before Demo
NF - Remove during Demo
Contact: High (CH)/Moderate (CM)/Low(CL)
Vibration: High (VH)/Moderate (VM)/Low(VL)
Air Erosion: High (AH)/Moderate (AM)/Low(AL)

Inspector Name: Michael T. Hebert Exp. 2014
ECT - Lansing MI

Signed/Date of Inspection: 4-17-13

Diagram Attached: Yes/No

Notes: N & S + 2 Interior Brick (3 Layers)
Metal Walls & Metal Roof 2½ Story
Concrete Floor
H beam Structure + Truss

| Photo Log | |
|---|---|
| # 7 | # |
| # 8 | # |
| # 9 | # |
| # 10 | # |
| # 11 | # |
| # 12 | # |
| # | # |

Sample Log
COC #

| | |
|---|---|
| 1 | 6 |
| 2 | 7 |
| 3 | 8 |
| 4 | 9 |
| 5 | 10 |

On-Site

Page: 1 of 2

F

ECT Inspector Name/#: Michael T. Hebert/A40056 Y/N Jason Bartholomew/A36772 Y/N

Date: 4-17-2013

ECT
Environmental Consulting & Technology, Inc.

Facility Name/Address: Former Rock Tenn Otsego Facility
431 Helen Ave., Otsego, Michigan
Paper Mill and Power Plant, Tax IDs 54-015-006-00/54-575-001-00/54-800-001-00

Location Number/Building ID: F Type: Wall (Field Sheet #)

Inspection Type: New Re-Insp.

| | | Desc./Color/Area (F/W/C) | | Units | Desc./Cond.: | Risk | Labled | Volume |
|---|---|---|---|---|---|---|---|---|
| Type ACM/Color/Volume: | 1 | M/S/TSI | c: None - No Insul | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 2 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 3 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 4 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 5 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 6 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 7 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 8 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 9 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 10 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |

1 - Immediate Attention (Poor Condition)
2 - Near Term Attention (NF) Limited Risk
3 - Wear - Regular Maintenance
4 - Limited Risk (inspection)
FD - Remove before Demo
NF - Remove during Demo
Contact: High (CH)/Moderate (CM)/Low(CL)
Vibration: High (VH)/Moderate (VM)/Low(VL)
Air Erosion: High (AH)/Moderate (AM)/Low(AL)

Inspector Name: Michael T. Hebert Exp. 2014
ECT - Lansing MI

Signed/Date of Inspection: 4-17-13

Diagram Attached: Yes/No

Notes: Delano 100 yards
Metal / Block wall
Metal Roof
2½ story
No - Pipe Insulation

| Photo Log | |
|---|---|
| # 1 | # |
| # 2 | # |
| # | # |
| # | # |
| # | # |
| # | # |
| # | # |

Sample Log
COC #

| | |
|---|---|
| 1 | 6 |
| 2 | 7 |
| 3 | 8 |
| 4 | 9 |
| 5 | 10 |

On-Site

Page: 1 of 2

ECT Inspector Name/#: Date: 4-17-13

Michael T. Hebert/A40056 Y/N

Jason Bartholomew/A36772 Y/N

ECT
Environmental Consulting & Technology, Inc.

(6)

Facility Name/Address: Former Rock Tenn Otsego Facility
431 Helen Ave., Otsego, Michigan
Paper Mill and Power Plant, Tax IDs 54-015-006-00/54-575-001-00/54-800-001-00

Location Number/Building ID 6 Type: Crane House (Field Sheet #)

Inspection Type: New Re-Insp.

| | | Desc./Color/Area (F/W/C) | | Units | Desc./Cond.: | Risk | Labled | Volume |
|---|---|---|---|---|---|---|---|---|
| Type ACM/Color/Volume: | 1 | M/S/TSI | c: None | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 2 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 3 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 4 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 5 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 6 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 7 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 8 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 9 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 10 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |

1 - Immediate Attention (Poor Condition)
2 - Near Term Attention (NF) Limited Risk
3 - Wear - Regular Maintenance
4 - Limited Risk (inspection)
FD - Remove before Demo
NF - Remove during Demo
Contact: High (CH)/Moderate (CM)/Low(CL)
Vibration: High (VH)/Moderate (VM)/Low(VL)
Air Erosion: High (AH)/Moderate (AM)/Low(AL)

Inspector Name: Michael T. Hebert Exp. 2014
ECT - Lansing MI

Signed/Date of Inspection: 4-17-13

Diagram Attached: Yes/No

| Notes: | Photo Log | |
|---|---|---|
| Concrete Walls Block | # 1 | # |
| Concrete Roof | # | # |
| No TSP Pipe Wrap | # | # |
| Concrete Floor | # | # |
| | # | # |
| | # | # |
| | # | # |

Sample Log
COC #

| | |
|---|---|
| 1 | 6 |
| 2 | 7 |
| 3 | 8 |
| 4 | 9 |
| 5 | 10 |

On-Site

Page: 1 of 2

(H)

ECT Inspector Name/#: Michael T. Hebert/A40056 Y/N (8) Jason Bartholomew/A36772 Y/N

Date: 4-17

ECT
Environmental Consulting & Technology, Inc.

Facility Name/Address: Former Rock Tenn Otsego Facility
431 Helen Ave., Otsego, Michigan
Paper Mill and Power Plant, Tax IDs 54-015-006-00/54-575-001-00/54-800-001-00

Location Number/Building ID: H Type: Warehouse (Field Sheet #)

Inspection Type: New Re-Insp.

| | | Desc./Color/Area (F/W/C) | | Units | Desc./Cond.: | Risk | Labled | Volume |
|---|---|---|---|---|---|---|---|---|
| Type ACM/Color/Volume: | 1 | M/S/TSI | c: None - ID | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 2 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 3 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 4 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 5 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 6 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 7 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 8 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 9 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 10 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |

1 - Immediate Attention (Poor Condition)
2 - Near Term Attention (NF) Limited Risk
3 - Wear - Regular Maintenance
4 - Limited Risk (inspection)
FD - Remove before Demo
NF - Remove during Demo
Contact: High (CH)/Moderate (CM)/Low(CL)
Vibration: High (VH)/Moderate (VM)/Low(VL)
Air Erosion: High (AH)/Moderate (AM)/Low(AL)

Inspector Name: Michael T. Hebert Exp. 2014
ECT - Lansing MI

Signed/Date of Inspection: 4-17-2013

Diagram Attached: (Yes)/No

Notes: Roof Concrete Walls Block/Brick
Floor Concrete

| Photo Log | |
|---|---|
| # | # |
| # | # |
| # | # |
| # | # |
| # | # |
| # | # |
| # | # |

Sample Log
COC #

| | |
|---|---|
| 1 | 6 |
| 2 | 7 |
| 3 | 8 |
| 4 | 9 |
| 5 | 10 |

On-Site

ECT Inspector Name/#: Michael T. Hebert/A40056 Y/N
Jason Bartholomew/A36772 Y/N

Date: 4-17

Page: 1 of 2

ECT
Environmental Consulting & Technology, Inc.

I

Facility Name/Address: Former Rock Tenn Otsego Facility
431 Helen Ave., Otsego, Michigan
Paper Mill and Power Plant, Tax IDs 54-015-006-00/54-575-001-00/54-800-001-00

Location Number/Building ID: I Type: Same Here (Field Sheet #)

Inspection Type: New Re-Insp.

| | | | Desc./Color/Area (F/W/C) | Units | Desc./Cond.: | Risk | Labled | Volume |
|---|---|---|---|---|---|---|---|---|
| Type ACM/Color/Volume: | 1 | M/S/TSI | c: None-ID | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 2 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 3 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 4 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 5 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 6 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 7 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 8 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 9 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 10 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |

1 - Immediate Attention (Poor Condition)
2 - Near Term Attention (NF) Limited Risk
3 - Wear - Regular Maintenance
4 - Limited Risk (inspection)
FD - Remove before Demo
NF - Remove during Demo
Contact: High (CH)/Moderate (CM)/Low(CL)
Vibration: High (VH)/Moderate (VM)/Low(VL)
Air Erosion: High (AH)/Moderate (AM)/Low(AL)

Inspector Name: Michael T. Hebert Exp. 2014
ECT - Lansing MI

Signed/Date of Inspection: 4-17-13

Diagram Attached: Yes/No

| Notes: | Photo Log | |
|---|---|---|
| Concrete walls (Brick Block) | # | # |
| | # | # |
| Concrete Roof/Floor | # | # |
| | # | # |
| I-Beams | # | # |
| | # | # |

Sample Log
COC #

| | |
|---|---|
| 1 | 6 |
| 2 | 7 |
| 3 | 8 |
| 4 | 9 |
| 5 | 10 |

On-Site

ECT Inspector Name/#: Michael T. Hebert/A40056 Y/N
Jason Bartholomew/A36772 Y/N

Date: 4-17

Page: 1 of 4

J-1 thru J-3

ECT
Environmental Consulting & Technology, Inc.

Facility Name/Address: Former Rock Tenn Otsego Facility
431 Helen Ave., Otsego, Michigan
Paper Mill and Power Plant, Tax IDs 54-015-006-00/54-575-001-00/54-800-001-00

Location Number/Building ID: J-1 thru J-3 Type: PAPER PROS. (Field Sheet #)

Inspection Type: New Re-Insp.

| | | Desc./Color/Area (F/W/C) | Units | Desc./Cond.: | Risk | Labled | Volume |
|---|---|---|---|---|---|---|---|
| Type ACM/Color/Volume: | 1 | M/S/TSI c: Debris Ft | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | 4 IRO yards |
| Type ACM/Color/Volume: | 2 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 3 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 4 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 5 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 6 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 7 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 8 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 9 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 10 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |

1 - Immediate Attention (Poor Condition)
2 - Near Term Attention (NF) Limited Risk
3 - Wear - Regular Maintenance
4 - Limited Risk (inspection)
FD - Remove before Demo
NF - Remove during Demo
Contact: High (CH)/Moderate (CM)/Low(CL)
Vibration: High (VH)/Moderate (VM)/Low(VL)
Air Erosion: High (AH)/Moderate (AM)/Low(AL)

Inspector Name: Michael T. Hebert Exp. 2014
ECT - Lansing MI

Signed/Date of Inspection: 4/7/13

Diagram Attached: Yes/No

Notes: Concrete Break
Debris Floor / Concrete
Free Door J-2 wood inside
No other ACM

| Photo Log | |
|---|---|
| # | # |
| # | # |
| # | # |
| # | # |
| # | # |
| # | # |
| # | # |

Sample Log
COC #

| | | | |
|---|---|---|---|
| 1 | J-1 Debris | 6 | |
| 2 | J-2 Debris | 7 | |
| 3 | J-3 Debris | 8 | |
| 4 | | 9 | |
| 5 | | 10 | |

On-Site

ECT Inspector Name/#: Date: 4-17 Page: 1 of 4

Michael T. Hebert/A40056 Y/N

Jason Bartholomew/A36772 Y/N

K-1 thru K-3

ECT
Environmental Consulting & Technology, Inc.

Facility Name/Address: Former Rock Tenn Otsego Facility
431 Helen Ave., Otsego, Michigan
Paper Mill and Power Plant, Tax IDs 54-015-006-00/54-575-001-00/54-800-001-00

Location Number/Building ID K-1, K-2, K-3 Type: paper plant (Field Sheet #)

Inspection Type: New Re-Insp.

| | | Desc./Color/Area (F/W/C) | | Units | Desc./Cond.: | Risk | Labled | Volume |
|---|---|---|---|---|---|---|---|---|
| Type ACM/Color/Volume: | 1 | M/S/TSI | c: None | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | See notes |
| Type ACM/Color/Volume: | 2 | M/S/TSI | c: ? Debris floor | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 3 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 4 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 5 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 6 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 7 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 8 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 9 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 10 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |

1 - Immediate Attention (Poor Condition)
2 - Near Term Attention (NF) Limited Risk
3 - Wear - Regular Maintenance
4 - Limited Risk (inspection)
FD - Remove before Demo
NF - Remove during Demo
Contact: High (CH)/Moderate (CM)/Low(CL)
Vibration: High (VH)/Moderate (VM)/Low(VL)
Air Erosion: High (AH)/Moderate (AM)/Low(AL)

Inspector Name: Michael T. Hebert Exp. 2014
ECT - Lansing MI

Signed/Date of Inspection: 4-17-13

Diagram Attached: Yes/No

Notes: concrete floor walls
Wood Roof
Concrete First floors

| Photo Log | |
|---|---|
| # | # |
| # | # |
| # | # |
| # | # |
| # | # |
| # | # |
| # | # |

Sample Log
COC #

| | | | |
|---|---|---|---|
| 1 | K-1 Debris | 6 | |
| 2 | K-2 Debris | 7 | |
| 3 | K-3 Debris | 8 | |
| 4 | | 9 | |
| 5 | | 10 | |

On-Site

Page: 1 of 4

L-1 thru L-3

ECT Inspector Name/#: Michael T. Hebert/A40056 Y/N
Jason Bartholomew/A36772 Y/N

Date: 4-17

ECT
Environmental Consulting & Technology, Inc.

Facility Name/Address: Former Rock Tenn Otsego Facility
431 Helen Ave., Otsego, Michigan
Paper Mill and Power Plant, Tax IDs 54-015-006-00/54-575-001-00/54-800-001-00

Location Number/Building ID: L-1, L-2, L-3 Type: Proc. Plant (Field Sheet #)

Inspection Type: New Re-Insp.

| | | Desc./Color/Area (F/W/C) | | Units | Desc./Cond.: | Risk | Labled | Volume |
|---|---|---|---|---|---|---|---|---|
| Type ACM/Color/Volume: | 1 | M/S/TSI | c: None ID | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | See diagram |
| Type ACM/Color/Volume: | 2 | M/S/TSI | c: Debris floor | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 3 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 4 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 5 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 6 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 7 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 8 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 9 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 10 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |

1 - Immediate Attention (Poor Condition)
2 - Near Term Attention (NF) Limited Risk
3 - Wear - Regular Maintenance
4 - Limited Risk (inspection)
FD - Remove before Demo
NF - Remove during Demo
Contact: High (CH)/Moderate (CM)/Low(CL)
Vibration: High (VH)/Moderate (VM)/Low(VL)
Air Erosion: High (AH)/Moderate (AM)/Low(AL)

Inspector Name: Michael T. Hebert Exp. 2014
ECT - Lansing MI

Signed/Date of Inspection: 4-17-13

Diagram Attached: Yes/No

Notes: Brick & Block Building
3 Floor Burn out
Pipes striped
Lagoon PVC pipe only
Holding Tanks in L-1, Lots Paper Dulp
pipe wrap ID-Fiberglass

| Photo Log | |
|---|---|
| # | # |
| # | # |
| # | # |
| # | # |
| # | # |
| # | # |
| # | # |

Sample Log
COC #

| | | | |
|---|---|---|---|
| 1 | Debris L-2 | 6 | |
| 2 | Debris L-1A | 7 | |
| 3 | Debris L-1B | 8 | |
| 4 | | 9 | |
| 5 | | 10 | |

On-Site

ECT Inspector Name/#: Michael T. Hebert/A40056 Y/N
Jason Bartholomew/A36772 Y/N

Date: 4-25-2013

Page: 1 of 3

ECT
Environmental Consulting & Technology, Inc.

Facility Name/Address: Former Rock Tenn Otsego Facility
431 Helen Ave., Otsego, Michigan
Paper Mill and Power Plant, Tax IDs 54-015-006-00/54-575-001-00/54-800-001-00

Location Number/Building ID: M-1 & M-2 Type: Manufacturing (Field Sheet #)

Inspection Type: New Re-Insp.

| | | Desc./Color/Area (F/W/C) | Units | Desc./Cond.: | Risk | Labled | Volume |
|---|---|---|---|---|---|---|---|
| Type ACM/Color/Volume: | 1 | M/S/TSI c: White Gray Floor Tile M-2 | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | 12.50 |
| Type ACM/Color/Volume: | 2 | M/S/TSI c: Debris Floor M-2 | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | 480 yards |
| Type ACM/Color/Volume: | 3 | M/S/TSI c: Ceiling Tile M-2 White Texture | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | 1250 |
| Type ACM/Color/Volume: | 4 | M/S/TSI c: Debris Floor M-1 | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | 240 yards |
| Type ACM/Color/Volume: | 5 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 6 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 7 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 8 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 9 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 10 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |

1 - Immediate Attention (Poor Condition)
2 - Near Term Attention (NF) Limited Risk
3 - Wear - Regular Maintenance
4 - Limited Risk (inspection)
FD - Remove before Demo
NF - Remove during Demo
Contact: High (CH)/Moderate (CM)/Low(CL)
Vibration: High (VH)/Moderate (VM)/Low(VL)
Air Erosion: High (AH)/Moderate (AM)/Low(AL)

Inspector Name: Michael T. Hebert Exp. 2014
ECT - Lansing MI

Signed/Date of Inspection: 4-25-13

Diagram Attached: Yes/No

Notes: M-2 21 Hg Lights w/B
M-1 12 Hg Lights w/B
Process Tank M-1
Oil Staining Floor M-1 & Center pit M-2

| Photo Log | |
|---|---|
| # | # |
| # | # |
| # | # |
| # | # |
| # | # |
| # | # |
| # | # |

Sample Log
COC #

| | | | |
|---|---|---|---|
| 1 | 3 Floor Tile | 6 | |
| 2 | 3 Ceiling Tile | 7 | |
| 3 | 6 Debris Floor - General (Pick H.P. For Asbestos) M-2 | 8 | |
| 4 | 6 Debris Floor - General (Pick H.P. for Asbestos) M-1 | 9 | |
| 5 | | 10 | |

N-1 thru N-6

On-Site

ECT Inspector Name/#: Michael T. Hebert/A40056 Y/N Jason Bartholomew/A36772 Y/N

Date: 4-24-2013

Page: 1 of 5

ECT
Environmental Consulting & Technology, Inc.

Facility Name/Address: Former Rock Tenn Otsego Facility
431 Helen Ave., Otsego, Michigan
Paper Mill and Power Plant, Tax IDs 54-015-006-00/54-575-001-00/54-800-001-00

Location Number/Building ID: N-1 thru N-6 Type: Manufacturing (Field Sheet #)

Inspection Type: New Re-Insp.

| | | Desc./Color/Area (F/W/C) | Units | Desc./Cond.: | Risk | Labled | Volume |
|---|---|---|---|---|---|---|---|
| Type ACM/Color/Volume: | 1 | M/S/TSI c: Pipe Fitt Covers N-1 | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | 160 |
| Type ACM/Color/Volume: | 2 | M/S/TSI c: Roof - Ashalt (3) Samples | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | 13,650 |
| Type ACM/Color/Volume: | 3 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 4 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 5 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 6 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 7 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 8 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 9 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 10 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |

1 - Immediate Attention (Poor Condition)
2 - Near Term Attention (NF) Limited Risk
3 - Wear - Regular Maintenance
4 - Limited Risk (inspection)
FD - Remove before Demo
NF - Remove during Demo
Contact: High (CH)/Moderate (CM)/Low(CL)
Vibration: High (VH)/Moderate (VM)/Low(VL)
Air Erosion: High (AH)/Moderate (AM)/Low(AL)

Inspector Name: Michael T. Hebert Exp. 2014
ECT - Lansing MI

Signed/Date of Inspection: 4-24-

Diagram Attached: Yes/No

| Notes: | Photo Log # | # |
|---|---|---|
| Building of the most part Empty, Brick Exterior, Bottom to Floor - Poshed in Walls, Floor N-4,5' unsafe | | |
| Ashalt Roof - Looks New (1-Coat) | | |
| | | |
| | | |
| | | |

Sample Log
COC #

| | |
|---|---|
| 1 | 6 |
| 2 | 7 |
| 3 | 8 |
| 4 | 9 |
| 5 | 10 |

On-Site

ECT Inspector Name/#: Michael T. Hebert/A40056 Y/N
Jason Bartholomew/A36772 Y/N

Date: 5-1-2013

Page: 1 of 3

0

ECT
Environmental Consulting & Technology, Inc.

Facility Name/Address: Former Rock Tenn Otsego Facility
431 Helen Ave., Otsego, Michigan
Paper Mill and Power Plant, Tax IDs 54-015-006-00/54-575-001-00/54-800-001-00

Location Number/Building ID: 0 Type: Welding/storage (Field Sheet #) 3-A

Inspection Type: New Re-Insp.

| | | Desc./Color/Area (F/W/C) | | Units | Desc./Cond.: | Risk | Labled | Volume |
|---|---|---|---|---|---|---|---|---|
| Type ACM/Color/Volume: | 1 | M/S/TSI | c: Floor Tile | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | T-340 |
| Type ACM/Color/Volume: | 2 | M/S/TSI | c: C-Tile | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | T-340 |
| Type ACM/Color/Volume: | 3 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 4 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 5 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 6 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 7 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 8 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 9 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 10 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |

1 - Immediate Attention (Poor Condition)
2 - Near Term Attention (NF) Limited Risk
3 - Wear - Regular Maintenance
4 - Limited Risk (inspection)
FD - Remove before Demo
NF - Remove during Demo
Contact: High (CH)/Moderate (CM)/Low(CL)
Vibration: High (VH)/Moderate (VM)/Low(VL)
Air Erosion: High (AH)/Moderate (AM)/Low(AL)

Inspector Name: Michael T. Hebert Exp. 2014
ECT - Lansing MI
Signed/Date of Inspection:

Diagram Attached: Yes/No

Notes: Brick walls
Concrete Floor
2 - story, Wood Supports
Debris in storage Area PIC, Fiberglass
No- ACM Id.

| Photo Log | |
|---|---|
| # | # |
| # | # |
| # | # |
| # | # |
| # | # |
| # | # |
| # | # |

Sample Log
COC #

| | |
|---|---|
| 1 | 6 |
| 2 | 7 |
| 3 | 8 |
| 4 | 9 |
| 5 | 10 |

On-Site

ECT Inspector Name/#: Michael T. Hebert/A40056 (Y)/N
Jason Bartholomew/A36772 Y/N

Date: 4-24-2013

Page: 1 of 4

P-Q

ECT
Environmental Consulting & Technology, Inc.

Facility Name/Address: Former Rock Tenn Otsego Facility
431 Helen Ave., Otsego, Michigan
Paper Mill and Power Plant, Tax IDs 54-015-006-00/54-575-001-00/54-800-001-00

Location Number/Building ID: P & Q P-1 thru P-3 & Q-1/Q-2 Type: Manufacturing (Field Sheet #)

Inspection Type: (New) Re-Insp.

| | | Desc./Color/Area (F/W/C) | Units | Desc./Cond.: | Risk | Labled | Volume |
|---|---|---|---|---|---|---|---|
| Type ACM/Color/Volume: | 1 | (M)/S/TSI c: Floor Tile P-3 office & Bath | Lin. Ft/Ft²/ft³ | (CH) CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/(N) | 820 |
| Type ACM/Color/Volume: | 2 | (M)/S/TSI c: Ceiling Tile P-3 office & Bath | Lin. Ft/Ft²/ft³ | (CH) CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/(N) | 880 |
| Type ACM/Color/Volume: | 3 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 4 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 5 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 6 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 7 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 8 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 9 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 10 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |

1 - Immediate Attention (Poor Condition)
2 - Near Term Attention (NF) Limited Risk
3 - Wear - Regular Maintenance
4 - Limited Risk (inspection)
FD - Remove before Demo
NF - Remove during Demo
Contact: High (CH)/Moderate (CM)/Low(CL)
Vibration: High (VH)/Moderate (VM)/Low(VL)
Air Erosion: High (AH)/Moderate (AM)/Low(AL)

Inspector Name: Michael T. Hebert Exp. 2014
ECT - Lansing MI

Signed/Date of Inspection: 4-24-2013

Diagram Attached: (Yes)/No

Notes: Brick/Concrete/wood Buildings, office Space & Bath Floor Tile/ Ceiling Tile, No pipe cover
Brick/Walls & Lower Poured Concrete Lower Levels (P-2 & P-3 Floors unsafe)
14 Ag Light
24 FL Lights

| Photo Log | |
|---|---|
| # | # |
| # | # |
| # | # |
| # | # |
| # | # |
| # | # |
| # | # |

Sample Log
COC #

| | |
|---|---|
| 1 3 Ceiling Tile | 6 |
| 2 3 Floor Tile | 7 |
| 3 | 8 |
| 4 | 9 |
| 5 | 10 |

On-Site

ECT Inspector Name/#: Date: 4-24-2013 Page: 1 of 3

Michael T. Hebert/A40056 Y/N

Jason Bartholomew/A36772 Y/N

ECT
Environmental Consulting & Technology, Inc.

Facility Name/Address: Former Rock Tenn Otsego Facility
431 Helen Ave., Otsego, Michigan
Paper Mill and Power Plant, Tax IDs 54-015-006-00/54-575-001-00/54-800-001-00

Location Number/Building ID R-1 & R-2 Type: (Field Sheet #)

Inspection Type: New Re-Insp.

| | | Desc./Color/Area (F/W/C) | Units | Desc./Cond.: | Risk | Labled | Volume |
|---|---|---|---|---|---|---|---|
| Type ACM/Color/Volume: | 1 | M/S/TSI c: R-1 95.5 Lft Pipe Insulation, White | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | 95.5 |
| Type ACM/Color/Volume: | 2 | M/S/TSI c: Ceiling Tile R-2, Gray/White | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | 144 |
| Type ACM/Color/Volume: | 3 | M/S/TSI c: Floor Tile R-2, White Texture | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | 144 |
| Type ACM/Color/Volume: | 4 | M/S/TSI c: Hall Way | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 5 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 6 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 7 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 8 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 9 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 10 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |

1 - Immediate Attention (Poor Condition)
2 - Near Term Attention (NF) Limited Risk
3 - Wear - Regular Maintenance
4 - Limited Risk (inspection)
FD - Remove before Demo
NF - Remove during Demo
Contact: High (CH)/Moderate (CM)/Low(CL)
Vibration: High (VH)/Moderate (VM)/Low(VL)
Air Erosion: High (AH)/Moderate (AM)/Low(AL)

Inspector Name: Michael T. Hebert Exp. 2014
ECT - Lansing MI

Signed/Date of Inspection: 4-24-2013

Diagram Attached: Yes/No

Notes: Brick Exterior, Mainly Storage/Office Space, Windows all AL. Frame, Lots of Doors

| Photo Log | |
|---|---|
| # | # |
| # | # |
| # | # |
| # | # |
| # | # |
| # | # |
| # | # |

Sample Log
COC #

| | |
|---|---|
| 1 | 6 |
| 2 | 7 |
| 3 | 8 |
| 4 | 9 |
| 5 | 10 |

On-Site

ECT Inspector Name/#: Michael T. Hebert/A40056 Y/N
Jason Bartholomew/A36772 Y/N

Date: 4-04-2013

Page: 1 of 1

ECT
Environmental Consulting & Technology, Inc.

Facility Name/Address: Former Rock Tenn Otsego Facility
431 Helen Ave., Otsego, Michigan
Paper Mill and Power Plant, Tax IDs 54-015-006-00/54-575-001-00/54-800-001-00

Location Number/Building ID

Type: (Field Sheet #)

Inspection Type: New Re-Insp.

| | | | Desc./Color/Area (F/W/C) | Units | Desc./Cond.: | Risk | Labled | Volume |
|---|---|---|---|---|---|---|---|---|
| Type ACM/Color/Volume: | 1 | M/S/TSI | c: Ceiling Tile Same AS R-2 | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | 995 |
| Type ACM/Color/Volume: | 2 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 3 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 4 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 5 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 6 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 7 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 8 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 9 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 10 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |

1 - Immediate Attention (Poor Condition)
2 - Near Term Attention (NF) Limited Risk
3 - Wear - Regular Maintenance
4 - Limited Risk (inspection)
FD - Remove before Demo
NF - Remove during Demo
Contact: High (CH)/Moderate (CM)/Low(CL)
Vibration: High (VH)/Moderate (VM)/Low(VL)
Air Erosion: High (AH)/Moderate (AM)/Low(AL)

Inspector Name: Michael T. Hebert Exp. 2014
ECT - Lansing MI

Signed/Date of Inspection: 4-04-2013

Diagram Attached: Yes/No

Notes: HgLights & FL. Lights T-8s
Office Space - Not Safe, 2½ Stor - (S-3) + 2 Sub Floors, Wood Floor/Concrete Floors
Support Wall In middle of Building
2-Roof Lines
Wood/Brick/Concrete Construction
Pipes have been Removed

| Photo Log | |
|---|---|
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Sample Log
COC #

| | |
|---|---|
| 1 | 6 |
| 2 | 7 |
| 3 | 8 |
| 4 | 9 |
| 5 | 10 |

On-Site

ECT Inspector Name/#:
Michael T. Hebert/A40056
Jason Bartholomew/A36772

Y/N
Y/N

Date: 5/1/2013

Page: 1 of 2

ECT
Environmental Consulting & Technology, Inc.

Facility Name/Address: Former Rock Tenn Otsego Facility
431 Helen Ave., Otsego, Michigan
Paper Mill and Power Plant, Tax IDs 54-015-006-00/54-575-001-00/54-800-001-00

Location Number/Building ID 1 Type: (Field Sheet #) 3

Inspection Type: New Re-Insp.

| | | | Desc./Color/Area (F/W/C) | Units | Desc./Cond.: | Risk | Labled | Volume |
|---|---|---|---|---|---|---|---|---|
| Type ACM/Color/Volume: | 1 | M/S/TSI | c: X/ONE | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 2 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 3 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 4 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 5 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 6 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 7 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 8 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 9 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 10 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |

1 - Immediate Attention (Poor Condition)
2 - Near Term Attention (NF) Limited Risk
3 - Wear - Regular Maintenance
4 - Limited Risk (inspection)
FD - Remove before Demo
NF - Remove during Demo
Contact: High (CH)/Moderate (CM)/Low(CL)
Vibration: High (VH)/Moderate (VM)/Low(VL)
Air Erosion: High (AH)/Moderate (AM)/Low(AL)

Inspector Name: Michael T. Hebert Exp. 2014
ECT - Lansing MI

Signed/Date of Inspection:

Diagram Attached: Yes/No

Notes: Brick Walls
Concrete Floor
C-F Tiles Offices Same as D
PVC Pipes
Ramp
Wood Roof

| Photo Log | |
|---|---|
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Sample Log
COC #

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| 1 | 6 |
| 2 | 7 |
| 3 | 8 |
| 4 | 9 |
| 5 | 10 |

On-Site

ECT Inspector Name/#: Date: 4-24 Page: 1 of 3

Michael T. Hebert/A40056 Y/N

Jason Bartholomew/A36772 Y/N

ECT
Environmental Consulting & Technology, Inc.

Facility Name/Address: Former Rock Tenn Otsego Facility
431 Helen Ave., Otsego, Michigan
Paper Mill and Power Plant, Tax IDs 54-015-006-00/54-575-001-00/54-800-001-00

Location Number/Building ID: 5 Type: PH Support (Field Sheet #)

Inspection Type: New Re-Insp.

| | | Desc./Color/Area (F/W/C) | Units | Desc./Cond.: | Risk | Labled | Volume |
|---|---|---|---|---|---|---|---|
| Type ACM/Color/Volume: | 1 | M/S/TSI c: 8" Power House Generator Room | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | 130 |
| Type ACM/Color/Volume: | 2 | M/S/TSI c: 24" Power House Generator Room | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | 18 |
| Type ACM/Color/Volume: | 3 | M/S/TSI c: Floor Generator Room / old Generator Room | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | 2160 |
| Type ACM/Color/Volume: | 4 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 5 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 6 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 7 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 8 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 9 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 10 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |

1 - Immediate Attention (Poor Condition)
2 - Near Term Attention (NF) Limited Risk
3 - Wear - Regular Maintenance
4 - Limited Risk (inspection)
FD - Remove before Demo
NF - Remove during Demo
Contact: High (CH)/Moderate (CM)/Low(CL)
Vibration: High (VH)/Moderate (VM)/Low(VL)
Air Erosion: High (AH)/Moderate (AM)/Low(AL)

Inspector Name: Michael T. Hebert Exp. 2014
ECT - Lansing MI
Signed/Date of Inspection:

Diagram Attached: Yes/No

| Notes: | Photo Log | |
|---|---|---|
| | # | # |
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Sample Log
COC #

| | |
|---|---|
| 1 | 6 |
| 2 | 7 |
| 3 | 8 |
| 4 | 9 |
| 5 | 10 |

On-Site

ECT Inspector Name/#: Michael T. Hebert/A40056 Y/N
Jason Bartholomew/A36772 Y/N

Date: 4-25-13

Page: 1 of 2

V & X

ECT
Environmental Consulting & Technology, Inc.

Facility Name/Address: Former Rock Tenn Otsego Facility
431 Helen Ave., Otsego, Michigan
Paper Mill and Power Plant, Tax IDs 54-015-006-00/54-575-001-00/54-800-001-00

Location Number/Building ID: V & X Type: storage / double Wide (Field Sheet #)

Inspection Type: New Re-Insp.

| | | | Desc./Color/Area (F/W/C) | Units | Desc./Cond.: | Risk | Labled | Volume |
|---|---|---|---|---|---|---|---|---|
| Type ACM/Color/Volume: | 1 | M/S/TSI | c: None - Found | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 2 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 3 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 4 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 5 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 6 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 7 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 8 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 9 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 10 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |

1 - Immediate Attention (Poor Condition)
2 - Near Term Attention (NF) Limited Risk
3 - Wear - Regular Maintenance
4 - Limited Risk (inspection)
FD - Remove before Demo
NF - Remove during Demo
Contact: High (CH)/Moderate (CM)/Low(CL)
Vibration: High (VH)/Moderate (VM)/Low(VL)
Air Erosion: High (AH)/Moderate (AM)/Low(AL)

Inspector Name: Michael T. Hebert Exp. 2014
ECT - Lansing MI
Signed/Date of Inspection: 4-25-13

Diagram Attached: Yes/No

Notes: Concrete Floor, Concrete colums, Asphalt Roof
Metal Trees
Trees - Metal/Steel No Insulation
8 hg Lights + 1 FL light w/b
Building 4ft Above ground Surface

| Photo Log | |
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Sample Log
COC #

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| 1 | 6 |
| 2 | 7 |
| 3 | 8 |
| 4 | 9 |
| 5 | 10 |

W & Y

ECT Inspector Name/#: Michael T. Hebert/A40056 Jason Bartholomew/A36772

On-Site Y/N Y/N

Date: 5-2-2013

Page: 1 of 2

ECT
Environmental Consulting & Technology, Inc.

Facility Name/Address: Former Rock Tenn Otsego Facility
431 Helen Ave., Otsego, Michigan
Paper Mill and Power Plant, Tax IDs 54-015-006-00/54-575-001-00/54-800-001-00

Location Number/Building ID: W - Food Concession Stand Y - Propane Refilling Type: Misc (Field Sheet #)

Inspection Type: New Re-Insp.

| | | Desc./Color/Area (F/W/C) | Units | Desc./Cond.: | Risk | Labled | Volume |
|---|---|---|---|---|---|---|---|
| Type ACM/Color/Volume: | 1 | M/S/TSI c: NO FOUND | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 2 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 3 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 4 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 5 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 6 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 7 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 8 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 9 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 10 | M/S/TSI c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |

1 - Immediate Attention (Poor Condition)
2 - Near Term Attention (NF) Limited Risk
3 - Wear - Regular Maintenance
4 - Limited Risk (inspection)
FD - Remove before Demo
NF - Remove during Demo
Contact: High (CH)/Moderate (CM)/Low(CL)
Vibration: High (VH)/Moderate (VM)/Low(VL)
Air Erosion: High (AH)/Moderate (AM)/Low(AL)

Inspector Name: Michael T. Hebert Exp. 2014
ECT - Lansing MI

Signed/Date of Inspection: 5-2-2013

Diagram Attached: Yes/No

Notes: Stand Misc. Buildings - Standard Demolition

| Photo Log | |
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Sample Log
COC #

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| 1 | 6 |
| 2 | 7 |
| 3 | 8 |
| 4 | 9 |
| 5 | 10 |

On-Site

ECT Inspector Name/#: Michael T. Hebert/A40056 Y/N
Jason Bartholomew/A36772 Y/N

Date: 5-1-2013



Misc. Building Z-1 & Z-2

ECT
Environmental Consulting & Technology, Inc.

Facility Name/Address: Former Rock Tenn Otsego Facility
431 Helen Ave., Otsego, Michigan
Paper Mill and Power Plant, Tax IDs 54-015-006-00/54-575-001-00/54-800-001-00

Location Number/Building ID: Misc Building & Z-1 & Z-2 Type: Pump House & Dock (Field Sheet #) Water/Process Water Holding Tank

Inspection Type: New Re-Insp.

| | | | Desc./Color/Area (F/W/C) | Units | Desc./Cond.: | Risk | Labled | Volume |
|---|---|---|---|---|---|---|---|---|
| Type ACM/Color/Volume: | 1 | M/S/TSI | c: No Found | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 2 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 3 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 4 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 5 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 6 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 7 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 8 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 9 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 10 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |

1 - Immediate Attention (Poor Condition)
2 - Near Term Attention (NF) Limited Risk
3 - Wear - Regular Maintenance
4 - Limited Risk (inspection)
FD - Remove before Demo
NF - Remove during Demo
Contact: High (CH)/Moderate (CM)/Low(CL)
Vibration: High (VH)/Moderate (VM)/Low(VL)
Air Erosion: High (AH)/Moderate (AM)/Low(AL)

Inspector Name: Michael T. Hebert Exp. 2014
ECT - Lansing MI

Signed/Date of Inspection: 5-1-2013

Diagram Attached: Yes/No

Notes: Misc. Building - only Concrete Slab.
Z Old Pump House. 2 story Concrete & Block, Concrete Floor & Roof., (10 yards misc. Debris)
* Misc. Exterior Ramp / Dock Supports
No Insulation or Pipe Covers
Z-2 Process / Holding / Waste Water Holding Tank - Concrete, Process - Pulp Retainage - 3 Sections, ± 54,000gal Residual Liquids

| Photo Log | |
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Sample Log
COC #

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| 1 | 6 |
| 2 | 7 |
| 3 | 8 |
| 4 | 9 |
| 5 | 10 |

On-Site

Page: 1 of 2

ECT Inspector Name/#: Date: 5-1-2013

Michael T. Hebert/A40056 Y/N

Jason Bartholomew/A36772 Y/N

ECT
Environmental Consulting & Technology, Inc.

Facility Name/Address: Former Rock Tenn Otsego Facility
431 Helen Ave., Otsego, Michigan
Paper Mill and Power Plant, Tax IDs 54-015-006-00/54-575-001-00/54-800-001-00

Location Number/Building ID: Z3, Z4 & Z5 Type: Process Tanks & Building (Field Sheet #)

Inspection Type: New Re-Insp.

| | | | Desc./Color/Area (F/W/C) | Units | Desc./Cond.: | Risk | Labled | Volume |
|---|---|---|---|---|---|---|---|---|
| Type ACM/Color/Volume: | 1 | M/S/TSI | c: No Found | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 2 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 3 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 4 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 5 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 6 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 7 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 8 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 9 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |
| Type ACM/Color/Volume: | 10 | M/S/TSI | c: | Lin. Ft/Ft²/ft³ | CH CM CL/VH VM VL/AH AM AL | 1/2/3/4 | Y/N | |

1 - Immediate Attention (Poor Condition)
2 - Near Term Attention (NF) Limited Risk
3 - Wear - Regular Maintenance
4 - Limited Risk (inspection)
FD - Remove before Demo
NF - Remove during Demo
Contact: High (CH)/Moderate (CM)/Low(CL)
Vibration: High (VH)/Moderate (VM)/Low(VL)
Air Erosion: High (AH)/Moderate (AM)/Low(AL)

Inspector Name: Michael T. Hebert Exp. 2014
ECT - Lansing MI
Signed/Date of Inspection: 5-1-2013

Diagram Attached: (Yes)/No

Notes: Z3 & Z4 Process Pulp Holding / Mixing Tanks (Concrete) D/ Residual (Rainwater) ± 850,000 gals
Z5 Process Building Concrete/Block Walls, Concrete Floor PVC & Metal Pipes (No Insulation)

| Photo Log | |
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Sample Log
COC #

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| 1 | 6 |
| 2 | 7 |
| 3 | 8 |
| 4 | 9 |
| 5 | 10 |

# Appendix G

## ACM Chain of Custody Records (90429, 90430, 122410-122416)

**Fibertec** environmental services


**Analytical Laboratory**
1914 Holloway Drive
Holt, MI 48842
Phone: 517 699 0345
Fax: 517 699 0388
email: lab@fibertec.us

8660 S. Mackinaw Trail
Cadillac, MI 49601
Phone: 231 775 8368
Fax: 231 775 8584

**Industrial Hygiene Services, Inc.**
1914 Holloway Drive
Holt, MI 48842
Phone: 517 699 0345
Fax: 517 699 0382
email: asbestos@fibertec.us

**Geoprobe**
11766 E. Grand River
Brighton, MI 48116
Phone: 810 220 3300
Fax: 810 220 3311


Chain of Custody # 122401



Client Name: ECT

Contact Person: Mike Hebert

Project Name/ Number: 100925

Purchase Order#

| Lab Sample # | Date | Time | Client Sample # | Client Sample Descriptor | MATRIX (SEE RIGHT CORNER FOR CODE) | # OF CONTAINERS | PRESERVED (Y/N) | PARAMETERS: ACM | PARAMETERS: PLM |
|---|---|---|---|---|---|---|---|---|---|
| | 5-1-13 | PM | | Building A Roof-1 | X | 1 | | | ✓ |
| | | | | Building A Roof-2 | X | 1 | | | ✓ |
| | | | | Building A Roof-3 | X | 1 | | | ✓ |
| | 5-1-13 | PM | | Building C & D Roof-1 | X | 1 | | | ✓ |
| | | | | Building C & D Roof-2 | X | 1 | | | ✓ |
| | | | | Building C & D Roof-3 | X | 1 | | | ✓ |
| | 5-1-13 | PM | | Building G Roof-1 | X | 1 | | | ✓ |
| | | | | Building G Roof-2 | X | 1 | | | ✓ |
| | | | | Building G Roof-3 | X | 1 | | | ✓ |
| | | | | | | | | | |

Turnaround
- [ ] 24 hour RUSH (surcharge applies)
- [ ] 48 hour RUSH (surcharge applies)
- [ ] 72 hour RUSH (surcharge applies)
- [ ] Standard (5-7 bus. days)
- [ ] Other: Specify

Matrix Code
S Soil, GW Ground Water, W Water, SW Surface Water, A Air, WW Waste Water, O Oil, X Other: Specify ACM, P Wipe

Remarks:
Group
Group
Group

Comments:
Group - If one positive for Asbestos, Don't Run Rest in group

| | | |
|---|---|---|
| Relinquished By: Michael T Hebert | Date/ Time 5-6-13 | Received By: Juliette Shade 5/6/13 3:15 |
| Relinquished By: | Date/ Time | Received By: |
| Relinquished By: | Date/ Time | Received By Laboratory: |

LAB USE ONLY:
Fibertec project number:
Laboratory Tracking:
Temperature at Receipt:

COC Revision: April, 2006

TERMS & CONDITIONS ON BACK

**Fibertec** environmental services

**Analytical Laboratory**
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email: lab@fibertec.us

8660 S. Mackinaw Trail
Cadillac, MI 49601
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Fax: 231 775 8584

**Industrial Hygiene Services, Inc.**
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Fax: 517 699 0382
email: asbestos@fibertec.us

**Geoprobe**
11766 E. Grand River
Brighton, MI 48116
Phone: 810 220 3300
Fax: 810 220 3311

Chain of Custody # 122402


Client Name: ECT
Contact Person: Mike Hebert
Project Name/ Number: 100925
Purchase Order#

| Lab Sample # | Date | Time | Client Sample # | Client Sample Descriptor | MATRIX (SEE RIGHT CORNER FOR CODE) | # OF CONTAINERS | PRESERVED (Y/N) | PARAMETERS: Item Plm |
|---|---|---|---|---|---|---|---|---|
| | 5-1-13 | PM | | Building H Roof-1 | X | ✓ | | ✓ |
| | | | | Building H Roof-2 | X | ✓ | | ✓ |
| | | | | Building H Roof-3 | X | ✓ | | ✓ |
| | 5-1-13 | PM | | Building I Roof--1 | X | ✓ | | ✓ |
| | | | | Building I Roof-2 | X | ✓ | | ✓ |
| | | | | Building I Roof-3 | X | ✓ | | ✓ |
| | 5-1-13 | PM | | Building P&Q Roof-1 | X | ✓ | | ✓ |
| | | | | Building P&Q Roof-2 | X | ✓ | | ✓ |
| | | | | Building P&Q Roof-3 | X | ✓ | | ✓ |
| | | | | | | | | |

Turnaround
- [ ] 24 hour RUSH (surcharge applies)
- [ ] 48 hour RUSH (surcharge applies)
- [ ] 72 hour RUSH (surcharge applies)
- [ ] Standard (5-7 bus. days)
- [ ] Other: Specify

Matrix Code
S Soil | GW Ground Water
W Water | SW Surface Water
A Air | WW Waste Water
O Oil | X Other: Specify
P Wipe

Other: Specify: Acm

Remarks:
Group
Group
Group

Comments:
Group - If one is positive for Asbestos, Don't Run Rest in Group

| Relinquished By: | Date/ Time | Received By: |
|---|---|---|
| Michael T Hebert | 5-6-13 | [signature] 5/6/13 3:15 |
| Relinquished By: | Date/ Time | Received By: |
| Relinquished By: | Date/ Time | Received By Laboratory: |

LAB USE ONLY:
Fibertec project number:
Laboratory Tracking:
Temperature at Receipt:

COC Revision: April, 2006

TERMS & CONDITIONS ON BACK

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Phone: 810 220 3300
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Chain of Custody # 122403



Client Name: ECT

Contact Person: Mike Hebert

Project Name/ Number: 100925-

Purchase Order#

| Lab Sample # | Date | Time | Client Sample # | Client Sample Descriptor | MATRIX (SEE RIGHT CORNER FOR CODE) | # OF CONTAINERS | PRESERVED (Y/N) | PARAMETERS: Asm PLM |
|---|---|---|---|---|---|---|---|---|
| | 5-1-13 | PM | | Building O Roof-1 | X | 1 | | ✓ |
| | | | | Building O Roof-2 | X | 1 | | ✓ |
| | | | | Building O Roof-3 | X | 1 | | ✓ |
| | 5-1-13 | PM | | Building J Roof-1 | X | 1 | | ✓ |
| | | | | Building J Roof-2 | X | 1 | | ✓ |
| | | | | Building J Roof-3 | X | 1 | | ✓ |
| | 5-1-13 | PM | | Building K Roof-1 | X | 1 | | ✓ |
| | | | | Building K Roof-2 | X | 1 | | ✓ |
| | | | | Building K-Roof-3 | X | 1 | | ✓ |
| | | | | | | | | |

Turnaround
- [ ] 24 hour RUSH (surcharge applies)
- [ ] 48 hour RUSH (surcharge applies)
- [ ] 72 hour RUSH (surcharge applies)
- [ ] Standard (5-7 bus. days)
- [ ] Other: Specify

Matrix Code
S Soil | GW Ground Water
W Water | SW Surface Water
A Air | WW Waste Water
O Oil | X Other: Specify
P Wipe — ACM

Remarks:
Group
Group
Group

Comments:
Group - If one is positive for Asbestos, Don't Run Rest in Group

| Relinquished By: | Date/ Time | Received By: |
|---|---|---|
| Michael T Hebert | 5-6-13 | 5/6/13 3:15 |
| Relinquished By: | Date/ Time | Received By: |
| Relinquished By: | Date/ Time | Received By Laboratory: |

LAB USE ONLY:
Fibertec project number:
Laboratory Tracking:
Temperature at Receipt:

COC Revision: April, 2006

TERMS & CONDITIONS ON BACK

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Phone: 810 220 3300
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Chain of Custody # 122404



Client Name: ECT

Contact Person: Mike Hebert

Project Name/ Number: 100925

Purchase Order#

Turnaround: 24 hour RUSH (surcharge applies); 48 hour RUSH (surcharge applies); 72 hour RUSH (surcharge applies); Standard (5-7 bus. days); Other: Specify

Matrix Code: S Soil; GW Ground Water; W Water; SW Surface Water; A Air; WW Waste Water; O Oil; X Other: Specify; P Wipe — ACM

| Lab Sample # | Date | Time | Client Sample # | Client Sample Descriptor | MATRIX (SEE RIGHT CORNER FOR CODE) | # OF CONTAINERS | PRESERVED (Y/N) | PARAMETERS: ACM PLM | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | 5-1 | PM | | Building R Roof-1 | X | 1 | | ✓ | Group |
| | | | | Building R Roof-2 | X | 1 | | ✓ | |
| | | | | Building R Roof-3 | X | 1 | | ✓ | |
| | 5-1 | PM | | Building U Roof-1 | X | 1 | | ✓ | Group |
| | | | | Building U Roof-2 | X | 1 | | ✓ | |
| | | | | Building U Roof-3 | X | 1 | | ✓ | |
| | 5-1 | PM | | Building V+X Roof-1 | X | 1 | | ✓ | Group |
| | | | | Building V+X Roof-2 | X | 1 | | ✓ | |
| | | | | Building V+X Roof-3 | X | 1 | | ✓ | |
| | | | | | | | | | |

Comments: Group - If One is positive for Asbestos, Don't Run Rest in Group

| Relinquished By: | Date/ Time | Received By: |
|---|---|---|
| Michael T Hebert | 5-6-13 | 5/6/13 3:15 |
| Relinquished By: | Date/ Time | Received By: |
| Relinquished By: | Date/ Time | Received By Laboratory: |

LAB USE ONLY:
Fibertec project number:
Laboratory Tracking:
Temperature at Receipt:

COC Revision: April, 2006

TERMS & CONDITIONS ON BACK

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Phone: 810 220 3300
Fax: 810 220 3311


Chain of Custody # 122405



Client Name: ECT

Contact Person: Mike Hebert

Project Name/ Number: 100925

Purchase Order#

| Lab Sample # | Date | Time | Client Sample # | Client Sample Descriptor | MATRIX (SEE RIGHT CORNER FOR CODE) | # OF CONTAINERS | PRESERVED (Y/N) | PARAMETERS: ACM PLM |
|---|---|---|---|---|---|---|---|---|
| | 5-1-13 | PM | | Building N Roof-1 | X | 1 | | ✓ |
| | | | | Building N Roof-2 | X | 1 | | ✓ |
| | | | | Building N Roof-3 | X | 1 | | ✓ |
| | 5-1-13 | PM | | Building S&T Roof-1 | X | 1 | | ✓ |
| | | | | Building S&T Roof-2 | X | 1 | | ✓ |
| | | | | Building S&T Roof-3 | X | 1 | | ✓ |
| | 5-1-13 | PM | | Power House Roof-1 | X | 1 | | ✓ |
| | | | | Power House Roof-2 | X | 1 | | ✓ |
| | | | | Power House Roof-3 | X | 1 | | ✓ |
| | | | | | | | | |

Turnaround:
- 24 hour RUSH (surcharge applies)
- 48 hour RUSH (surcharge applies)
- 72 hour RUSH (surcharge applies)
- Standard (5-7 bus. days)
- Other: Specify

Matrix Code: S Soil; W Water; A Air; O Oil; P Wipe; GW Ground Water; SW Surface Water; WW Waste Water; X Other: Specify ACM

Remarks:
Group
Group
Group

Comments: Group - If one is positive for Asbestos, Don't Run Rest in Group

| Relinquished By: | Date/ Time | Received By: |
|---|---|---|
| Michael T Hebert | 5-6-13 | [signature] 5/6/13 3:15 |
| Relinquished By: | Date/ Time | Received By: |
| Relinquished By: | Date/ Time | Received By Laboratory: |

LAB USE ONLY:
Fibertec project number:
Laboratory Tracking:
Temperature at Receipt:

COC Revision: April, 2006

TERMS & CONDITIONS ON BACK

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Chain of Custody # 122406



Client Name: ECT

Contact Person: Mike Hebert

Project Name/ Number: 100925

Purchase Order#

Turnaround: 24 hour RUSH (surcharge applies); 48 hour RUSH (surcharge applies); 72 hour RUSH (surcharge applies); Standard (5-7 bus. days); Other: Specify

Matrix Code: S Soil; W Water; A Air; O Oil; P Wipe; GW Ground Water; SW Surface Water; WW Waste Water; X Other: Specify Acm

| Lab Sample # | Date | Time | Client Sample # | Client Sample Descriptor | MATRIX (SEE RIGHT CORNER FOR CODE) | # OF CONTAINERS | PRESERVED (Y/N) | PARAMETERS: Acm PLM | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | 5-1-13 | Am | | Building O&A Floor Tile | X | 1 | | ✓ | |
| | 5-1-13 | Am | | Building O&A Floor Tile | X | 1 | | ✓ | Group |
| | 5-1-13 | Am | | Building O&A Floor Tile | X | 1 | | ✓ | |
| | 5-1-13 | Am | | Building N-1 ~~Floor~~ Debris-1 | X | 1 | | ✓ | |
| | 5-1-13 | Am | | Building N-1 Debris-2 | X | 1 | | ✓ | MTH [redacted] (Run All) |
| | 5-1-13 | Am | | Building N-1 Debris-3 | X | 1 | | ✓ | Group |
| | 5-1-13 | Am | | Building L-2 Debris-1 | X | 1 | | ✓ | |
| | | | | Building L-2 Debris-2 | X | 1 | | ✓ | MTH [redacted] (Run [redacted]) |
| | | | | Building L-2 Debris-3 | X | 1 | | ✓ | Group |
| | | | | Building L-2 Debris-4 | X | 1 | | ✓ | |

Comments:

Group - If one is Positive for Asbestos Don't Run Rest in Group MTH [redacted] & Debris

| Relinquished By: | Date/ Time | Received By: |
|---|---|---|
| Michael T Hebert | 5-6-13 | [redacted] 5/6/13 3:15 |
| Relinquished By: | Date/ Time | Received By: |
| Relinquished By: | Date/ Time | Received By Laboratory: |

LAB USE ONLY:
Fibertec project number:
Laboratory Tracking:
Temperature at Receipt:

COC Revision: April, 2006

TERMS & CONDITIONS ON BACK

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**Geoprobe**
11766 E. Grand River
Brighton, MI 48116
Phone: 810 220 3300
Fax: 810 220 3311


Chain of Custody # 122408
PAGE 7 of 16

Client Name: ECT
Contact Person: Mike Hebert
Project Name/ Number: 100925
Purchase Order#

| Lab Sample # | Date | Time | Client Sample # | Client Sample Descriptor | MATRIX (SEE RIGHT CORNER FOR CODE) | # OF CONTAINERS | PRESERVED (Y/N) | PARAMETERS: ACM PLM | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | 5-1-13 | Am | | Building L-2 Debris - 5 | X | 1 | | ✓ | |
| | 5-1-13 | Am | | Building L-2 C-Tile - 1 | X | 1 | | ✓ | Group |
| | | | | Building L-2 C-Tile - 2 | X | 1 | | ✓ | |
| | | | | Building L-2 C-Tile - 3 | X | 1 | | ✓ | |
| | 5-1-13 | Am | | Building P&Q Debris - 1 | X | 1 | | ✓ | |
| | | | | Building P&Q Debris - 2 | X | 1 | | ✓ | Group |
| | | | | Building P&Q Debris - 3 | X | 1 | | ✓ | |
| | 5-1-13 | Am | | Building P office Floor Tile - 1 | X | 1 | | ✓ | |
| | | | | Building P office Floor Tile - 2 | X | 1 | | ✓ | Group |
| | | | | Building P office Floor Tile - 3 | X | 1 | | ✓ | |

Turnaround
- 24 hour RUSH (surcharge applies)
- 48 hour RUSH (surcharge applies)
- 72 hour RUSH (surcharge applies)
- Standard (5-7 bus. days)
- Other: Specify

Matrix Code
S Soil | GW Ground Water | W Water | SW Surface Water | A Air | WW Waste Water | O Oil | X Other: Specify | P Wipe

Other: Specify: Acm

Comments:
Group - If one is Positive for Asbestos, Don't Run Rest of Group

| | | |
|---|---|---|
| Relinquished By: Michael J Hebert | Date/ Time 5-6-13 | Received By: Robert Spade 5/6/13 3:15 |
| Relinquished By: | Date/ Time | Received By: |
| Relinquished By: | Date/ Time | Received By Laboratory: |

LAB USE ONLY:
Fibertec project number:
Laboratory Tracking:
Temperature at Receipt:

COC Revision: April, 2006

TERMS & CONDITIONS ON BACK

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**Geoprobe**
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Brighton, MI 48116
Phone: 810 220 3300
Fax: 810 220 3311

Chain of Custody # **122407**



Client Name: ECT

Contact Person: Mike Hebert

Project Name/ Number: 100925

Purchase Order#

| Lab Sample # | Date | Time | Client Sample # | Client Sample Descriptor | MATRIX (SEE RIGHT CORNER FOR CODE) | # OF CONTAINERS | PRESERVED (Y/N) | PARAMETERS: Asm Rem |
|---|---|---|---|---|---|---|---|---|
| | 5-1-13 | Am | | Building L-1 Debris - 1 | X | 1 | | ✓ |
| | | | | Building L-1 Debris - 2 | X | 1 | | ✓ |
| | | | | Building L-1 Debris - 3 | X | 1 | | ✓ |
| | | | | Building L-1 Debris - 4 | X | 1 | | ✓ |
| | | | | Building L-1 Debris - 5 | X | 1 | | ✓ |
| | 5-1-13 | Am | | Building L-2 Floor Tile 1 | X | 1 | | ✓ |
| | 5-1-13 | Am | | Building L-2 Floor Tile - 2 | X | 1 | | ✓ |
| | 5-1-13 | Am | | Building L-2 Floor Tile - 3 | X | 1 | | ✓ |
| | 5-1-13 | Am | | Building N-1 Pipe Cover | X | 1 | | ✓ |
| | | | | | | | | |

Turnaround
- 24 hour RUSH (surcharge applies)
- 48 hour RUSH (surcharge applies)
- 72 hour RUSH (surcharge applies)
- Standard (5-7 bus. days)
- Other: Specify

Matrix Code
- S Soil
- W Water
- A Air
- O Oil
- P Wipe
- GW Ground Water
- SW Surface Water
- WW Waste Water
- X Other: Specify Asm

Remarks:
Group
Group

Comments:
Group - If one is Positive for Asbestos, Dont Run Rest of Group

| Relinquished By: | Date/ Time | Received By: |
|---|---|---|
| Michael T Hebert | 5-6-13 | Dale A. Shade 5/6/13 3:15 |
| Relinquished By: | Date/ Time | Received By: |
| Relinquished By: | Date/ Time | Received By Laboratory: |

LAB USE ONLY:
Fibertec project number:
Laboratory Tracking:
Temperature at Receipt:

COC Revision: April, 2006

TERMS & CONDITIONS ON BACK

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**Geoprobe**
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Phone: 810 220 3300
Fax: 810 220 3311

Chain of Custody # **122409**



Client Name: ECT

Contact Person: Mike Hebert

Project Name/ Number: 100985

Purchase Order#

| Lab Sample # | Date | Time | Client Sample # | Client Sample Descriptor | MATRIX (SEE RIGHT CORNER FOR CODE) | # OF CONTAINERS | PRESERVED (Y/N) | PARAMETERS: ACM PLM | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | 4-24-13 | PM | | Building P C-Tile 2 - 1 | X | 1 | | ✓ | Group |
| | | | | Building P C-Tile 2 - 2 | X | 1 | | ✓ | |
| | | | | Building P C-Tile 2 - 3 | X | 1 | | ✓ | |
| | | | | Building P, C-Tile 1 - 1 | X | 1 | | ✓ | Group |
| | | | | Building P, C-Tile 1 - 2 | X | 1 | | ✓ | |
| | | | | Building P, C-Tile 1-3 | X | 1 | | ✓ | |
| | | | | Building R Pipe Cover - 1 | X | 1 | | ✓ | Group |
| | | | | Building R Pipe Cover - 2 | X | 1 | | ✓ | |
| | | | | Building R Pipe Cover - 3 | X | 1 | | ✓ | |
| | | | | | | | | | |

Turnaround
- [ ] 24 hour RUSH (surcharge applies)
- [ ] 48 hour RUSH (surcharge applies)
- [ ] 72 hour RUSH (surcharge applies)
- [ ] Standard (5-7 bus. days)
- [ ] Other: Specify

Matrix Code
S Soil, GW Ground Water, W Water, SW Surface Water, A Air, WW Waste Water, O Oil, X Other: Specify ACM, P Wipe

Comments:
Group - If one is positive for Asbestos Don't Run Rest of Group

| Relinquished By: | Date/ Time | Received By: |
|---|---|---|
| Michael T Hebert | 5-6-13 | 5/6/13 3:15 |
| Relinquished By: | Date/ Time | Received By: |
| Relinquished By: | Date/ Time | Received By Laboratory: |

LAB USE ONLY:
Fibertec project number:
Laboratory Tracking:
Temperature at Receipt:

COC Revision: April, 2006

TERMS & CONDITIONS ON BACK

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**Geoprobe**
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Phone: 810 220 3300
Fax: 810 220 3311


Chain of Custody # 122410



Client Name: ECT

Contact Person: Mike Hebert

Project Name/ Number: 100925

Purchase Order#

| Lab Sample # | Date | Time | Client Sample # | Client Sample Descriptor | MATRIX (SEE RIGHT CORNER FOR CODE) | # OF CONTAINERS | PRESERVED (Y/N) | PARAMETERS: Asb PLM | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | 4-24 | PM | | Building R-2 C-Tile | X | 1 | | ✓ | |
| | | | | Building R-2, C-Tile | X | 1 | | ✓ | Group |
| | | | | Building R-2, C-Tile | X | 1 | | ✓ | |
| | 4-24 | PM | | Building R-2, Floor Tile | X | 1 | | ✓ | |
| | | | | Building R-2, Floor Tile | X | 1 | | ✓ | Group |
| | | | | Building R-2, Floor Tile | X | 1 | | ✓ | |
| | 4-24 | PM | | Building U+T Debris-1 | X | 1 | | ✓ | |
| | | | | Building U+T Debris-2 | X | 1 | | ✓ | Group |
| | | | | Building U+T Debris-3 | X | 1 | | ✓ | |
| | | | | | | | | | |

Turnaround
- 24 hour RUSH (surcharge applies)
- 48 hour RUSH (surcharge applies)
- 72 hour RUSH (surcharge applies)
- Standard (5-7 bus. days)
- Other: Specify

Matrix Code
- S Soil
- W Water
- A Air
- O Oil
- P Wipe
- GW Ground Water
- SW Surface Water
- WW Waste Water
- X Other: Specify

Comments:
Group - If one is Positive for Asbestos, Dont Run Rest in Group

| Relinquished By: | Date/ Time | Received By: |
|---|---|---|
| Michael T Hebert | 5-6-13 | [signature] 5/6/13 3:15 |
| Relinquished By: | Date/ Time | Received By: |
| Relinquished By: | Date/ Time | Received By Laboratory: |

LAB USE ONLY:
Fibertec project number:
Laboratory Tracking:
Temperature at Receipt:

COC Revision: April, 2006

TERMS & CONDITIONS ON BACK

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**Geoprobe**
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Phone: 810 220 3300
Fax: 810 220 3311


Chain of Custody # 122411



Client Name: ECT

Contact Person: Mike Hebert

Project Name/ Number: 100925

Purchase Order#

| Lab Sample # | Date | Time | Client Sample # | Client Sample Descriptor | MATRIX (SEE RIGHT CORNER FOR CODE) | # OF CONTAINERS | PRESERVED (Y/N) | PARAMETERS | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | 5-2 | Am | | PH-2 Debris-1 | | | | | |
| | | | | PH-2 Debris-2 | | | | | 6hour |
| | | | | PH-2 Debris-3 | | | | | |
| | 5-2 | Am | | PH-Ext. Ins. Furnace-1 | | | | | |
| | | | | PH-Ext Ins. Furnace-2 | | | | | 6hour |
| | | | | PH-Ext Ins. Furnace-3 | | | | | |
| | 5-2 | Am | | PH-1 Debris-1 | | | | | |
| | | | | PH-1 Debris-2 | | | | | 6hour |
| | | | | PH-1 Debris-3 | | | | | |
| | | | | | | | | | |

**Turnaround**
- 24 hour RUSH (surcharge applies)
- 48 hour RUSH (surcharge applies)
- 72 hour RUSH (surcharge applies)
- Standard (5-7 bus. days)
- Other: Specify

**Matrix Code**
S Soil | GW Ground Water | W Water | SW Surface Water | A Air | WW Waste Water | O Oil | X Other: Specify | P Wipe

Other: Specify: Asm

Comments:

6hour - If positive for Asbestos, Dont Run Rest in 6hour

| | | |
|---|---|---|
| Relinquished By: Michael T Hebert | Date/ Time 5-6-13 | Received By: |
| Relinquished By: | Date/ Time | Received By: 5/6/13 3:15 |
| Relinquished By: | Date/ Time | Received By Laboratory: |

LAB USE ONLY:
Fibertec project number:
Laboratory Tracking:
Temperature at Receipt:

COC Revision: April, 2006

TERMS & CONDITIONS ON BACK

**Fibertec** environmental services


**Analytical Laboratory**
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email: lab@fibertec.us

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Phone: 231 775 8368
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**Geoprobe**
11766 E. Grand River
Brighton, MI 48116
Phone: 810 220 3300
Fax: 810 220 3311


Chain of Custody # 122412



Client Name: GCT

Contact Person: Mike Hebert

Project Name/ Number: 100925

Purchase Order#

| Lab Sample # | Date | Time | Client Sample # | Client Sample Descriptor | MATRIX (SEE RIGHT CORNER FOR CODE) | # OF CONTAINERS | PRESERVED (Y/N) | PARAMETERS: ACM - PLM | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | 5-2-13 | Am | | PH-Gen 8" Pipe Ins. - 1 | X | 1 | | ✓ | Group |
| | | | | PH-Gen 8" Pipe Ins. - 2 | X | 1 | | ✓ | |
| | | | | PH-Gen. 8" Pipe Ins. -3 | X | 1 | | ✓ | |
| | 5-2-13 | Am | | PH-Gen 24" Pipe Ins - 1 | X | 1 | | ✓ | Group |
| | | | | PH-Gen 24" Pipe Ins-2 | X | 1 | | ✓ | |
| | | | | PH-Gen 24" Pipe Ins-3 | X | 1 | | ✓ | |
| | 5-2-13 | Am | | PH2 Tank Ext. Coating-1 | X | 1 | | ✓ | Group |
| | | | | PH2 Tank Ext. Coating-2 | X | 1 | | ✓ | |
| | | | | PH2 Tank Ext Coating-3 | X | 1 | | ✓ | |
| | | | | | | | | | |

Turnaround
- 24 hour RUSH (surcharge applies)
- 48 hour RUSH (surcharge applies)
- 72 hour RUSH (surcharge applies)
- Standard (5-7 bus. days)
- Other: Specify

Matrix Code
- S Soil
- W Water
- A Air
- O Oil
- P Wipe
- GW Ground Water
- SW Surface Water
- WW Waste Water
- X Other: Specify ACM

Comments:
Group - If One is positive for Asbestos, Don't Run the Rest in the Group

| Relinquished By: | Date/ Time | Received By: |
|---|---|---|
| Michael T Hebert | 5-6-13 | 5/6/13 3:15 |
| Relinquished By: | Date/ Time | Received By: |
| Relinquished By: | Date/ Time | Received By Laboratory: |

LAB USE ONLY:
Fibertec project number:
Laboratory Tracking:
Temperature at Receipt:

COC Revision: April, 2006

TERMS & CONDITIONS ON BACK

**Fibertec** environmental services


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**Geoprobe**
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Phone: 810 220 3300
Fax: 810 220 3311


Chain of Custody # **122413**



Client Name: Ect

Contact Person: Mike Hebert

Project Name/ Number: 100925

Purchase Order#

| Lab Sample # | Date | Time | Client Sample # | Client Sample Descriptor | MATRIX (SEE RIGHT CORNER FOR CODE) | # OF CONTAINERS | PRESERVED (Y/N) | PARAMETERS: Asm | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | 5-2-13 | Am | | PH - Fire Brick-1 | X | 1 | | ✓ | |
| | | | | PH - Fire Brick-2 | X | 1 | | ✓ | Group |
| | | | | PH- Fire Brick-3 | X | 1 | | ✓ | |
| | 5-2-13 | PM | | PH- Ins. Behind Steel Covers | X | 1 | | ✓ | |
| | | | | PH- Ins Behind Steel Covers | X | 1 | | ✓ | Group |
| | | | | PH- Ins Behind Steel Covers | X | 1 | | ✓ | |
| | 5-2-13 | PM | | PH 1&2 Pipe Ins. - 1 | X | 1 | | ✓ | |
| | | | | PH 1&2 Pipe Ins-2 | X | 1 | | ✓ | Group |
| | | | | PH 1&2 Pipe Ins-3 | X | 1 | | ✓ | |
| | | | | | | | | | |

Turnaround
- 24 hour RUSH (surcharge applies)
- 48 hour RUSH (surcharge applies)
- 72 hour RUSH (surcharge applies)
- Standard (5-7 bus. days)
- Other: Specify

Matrix Code
- S Soil
- W Water
- A Air
- O Oil
- P Wipe
- GW Ground Water
- SW Surface Water
- WW Waste Water
- X Other: Specify Asm

Comments:
Group - If positive for Asbestos, Don't Run the rest in a group

| Relinquished By: | Date/ Time | Received By: |
|---|---|---|
| Michael T Hebert | 5-6-13 | [signature] 5/6/13 3:15 |
| Relinquished By: | Date/ Time | Received By: |
| Relinquished By: | Date/ Time | Received By Laboratory: |

LAB USE ONLY:
Fibertec project number:
Laboratory Tracking:
Temperature at Receipt:

COC Revision: April, 2006

TERMS & CONDITIONS ON BACK

**Fibertec** environmental services

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Phone: 810 220 3300
Fax: 810 220 3311

Chain of Custody # 122414



Client Name: ECT

Contact Person: Mike Hebert

Project Name/ Number: 100925

Purchase Order#

| Lab Sample # | Date | Time | Client Sample # | Client Sample Descriptor | MATRIX (SEE RIGHT CORNER FOR CODE) | # OF CONTAINERS | PRESERVED (Y/N) | PARAMETERS: ACM PLM | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | 5-2-13 | PM | | PH, Second Heat Coil Ext. -1 | X | 1 | | ✓ | |
| | | | | PH, Second Heat Coil Ext.-2 | X | 1 | | ✓ | Group |
| | | | | PH, Second Heat Coil Ext-5 | X | 1 | | ✓ | |
| | 5-2-13 | PM | | PH-1 Small Tanks Cover -1 | X | 1 | | ✓ | |
| | | | | PH-1 Small Tanks Cover-2 | X | 1 | | ✓ | Group |
| | | | | PH-1 Small Tank Cover-3 | X | 1 | | ✓ | |
| | 5-2-13 | PM | | PH Furnace Brick/Motar -1 | X | 1 | | ✓ | |
| | | | | PH Furnace Brick/Motar-2 | X | 1 | | ✓ | Group |
| | | | | PH Furnace Brick/Motar-3 | X | 1 | | ✓ | |
| | | | | | | | | | |

Turnaround
- 24 hour RUSH (surcharge applies)
- 48 hour RUSH (surcharge applies)
- 72 hour RUSH (surcharge applies)
- Standard (5-7 bus. days)
- Other: Specify

Matrix Code
S Soil, GW Ground Water, W Water, SW Surface Water, A Air, WW Waste Water, O Oil, X Other: Specify ACM, P Wipe

Comments:
Group - If one is positive, Don't Run the Rest in a Group

| Relinquished By: | Date/ Time | Received By: |
|---|---|---|
| Michael T Hebert | | 5/6/13 3:15 |
| Relinquished By: | Date/ Time | Received By: |
| Relinquished By: | Date/ Time | Received By Laboratory: |

LAB USE ONLY:
Fibertec project number:
Laboratory Tracking:
Temperature at Receipt:

COC Revision: April, 2006

TERMS & CONDITIONS ON BACK

**Fibertec** environmental services


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Phone: 810 220 3300
Fax: 810 220 3311


Chain of Custody # 122415



Client Name: ECT

Contact Person: Mike Hebert

Project Name/ Number: 100925

Purchase Order#

| Lab Sample # | Date | Time | Client Sample # | Client Sample Descriptor | MATRIX (SEE RIGHT CORNER FOR CODE) | # OF CONTAINERS | PRESERVED (Y/N) | PARAMETERS: ACM PLM | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | 5-2-13 | pm | | PH, Loen + 48, Debris - 1 | X | 1 | | ✓ | Group 1 |
| | | | | PH, Loen + 48, Debris - 2 | X | 1 | | ✓ | |
| | | | | PH, Loen + 48, Debris - 3 | X | 1 | | ✓ | |
| | 5-2-13 | pm | | PH Heat Hood Cover - 1 | X | 1 | | ✓ | Group |
| | | | | PH Heat Hood Cover - 2 | X | 1 | | ✓ | |
| | | | | PH Heat Hood Cover - 3 | X | 1 | | ✓ | |
| | 5-2-13 | pm | | PH-2 Tank Ext Fiber Coating - 1 | X | 1 | | ✓ | Group |
| | | | | PH-2 Tank Ext. Fiber Coating - 2 | X | 1 | | ✓ | |
| | | | | PH-2 Tank Ext Fiber Coating - 3 | X | 1 | | ✓ | |

Turnaround
- 24 hour RUSH (surcharge applies)
- 48 hour RUSH (surcharge applies)
- 72 hour RUSH (surcharge applies)
- Standard (5-7 bus. days)
- Other: Specify

Matrix Code
S Soil | GW Ground Water | W Water | SW Surface Water | A Air | WW Waste Water | O Oil | (X) Other: Specify ACM | P Wipe

Comments:
Group - If positive for Asbestos, Dont Run Rest in Group

| | | |
|---|---|---|
| Relinquished By: Michael T Hebert | Date/ Time 5-2-13 | Received By: 5/6/13 3:15 |
| Relinquished By: | Date/ Time | Received By: |
| Relinquished By: | Date/ Time | Received By Laboratory: |

LAB USE ONLY:
Fibertec project number:
Laboratory Tracking:
Temperature at Receipt:

COC Revision: April, 2006

TERMS & CONDITIONS ON BACK

**Fibertec** environmental services


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**Geoprobe**
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Brighton, MI 48116
Phone: 810 220 3300
Fax: 810 220 3311


Chain of Custody # **122416**



Client Name: BCT

Contact Person: Mike Herbert

Project Name/ Number: 100925

Purchase Order#

| Lab Sample # | Date | Time | Client Sample # | Client Sample Descriptor | MATRIX (SEE RIGHT CORNER FOR CODE) | # OF CONTAINERS | PRESERVED (Y/N) | PARAMETERS: Acm PLM | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | 5-2-13 | Pm | | PH Gasket Steam Coils - 1 | X | 1 | | ✓ | Group |
| | | | | PH Gasket Steam Coils - 2 | X | 1 | | ✓ | |
| | | | | PH Gasket Steam Coils - 3 | X | 1 | | ✓ | |
| | 5-2-13 | Pm | | PH Large Tank Lining - 1 | X | 1 | | ✓ | Group |
| | | | | PH Large Tank Lining - 2 | X | 1 | | ✓ | |
| | | | | PH Large Tank Lining - 3 | X | 1 | | ✓ | |
| | 5-2-13 | Pm | | PH Heating Coil Int. Lining - 1 | X | 1 | | ✓ | Group |
| | | | | PH Heating Coil Int. Lining - 2 | X | 1 | | ✓ | |
| | | | | PH Heating Coil Int. Lining - 3 | X | 1 | | ✓ | |
| | | | | | | | | | |

Turnaround
- [ ] 24 hour RUSH (surcharge applies)
- [ ] 48 hour RUSH (surcharge applies)
- [ ] 72 hour RUSH (surcharge applies)
- [ ] Standard (5-7 bus. days)
- [ ] Other: Specify

Matrix Code
S Soil | GW Ground Water | W Water | SW Surface Water | A Air | WW Waste Water | O Oil | X Other: Specify | P Wipe

Acm

Comments:

Group - If one positive for Asbestos, Dont Run the Rest in a group

| Relinquished By: | Date/ Time | Received By: |
|---|---|---|
| Michael T Herbert | 5-6-13 | [signature] 5/6/13 3:15 |
| Relinquished By: | Date/ Time | Received By: |
| Relinquished By: | Date/ Time | Received By Laboratory: |

LAB USE ONLY:
Fibertec project number:
Laboratory Tracking:
Temperature at Receipt:

COC Revision: April, 2006

TERMS & CONDITIONS ON BACK

Fibertec environmental services


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**Geoprobe**
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Phone: 810 220 3300
Fax: 810 220 3311


Chain of Custody # 90430

PAGE ____ of ____

Client Name:

Contact Person:

Project Name/ Number:

Purchase Order#

| Lab Sample # | Date | Time | Client Sample # | Client Sample Descriptor | MATRIX (SEE RIGHT CORNER FOR CODE) | # OF CONTAINERS | PRESERVED (Y/N) | PARAMETERS | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
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Turnaround

- ☐ 24 hour RUSH (surcharge applies)
- ☐ 48 hour RUSH (surcharge applies)
- ☐ 72 hour RUSH (surcharge applies)
- ☐ Standard (5-7 bus. days)
- ☐ Other: Specify _____

Matrix Code

| | | | |
|---|---|---|---|
| S | Soil | GW | Ground Water |
| W | Water | SW | Surface Water |
| A | Air | WW | Waste Water |
| O | Oil | X | Other: Specify |
| P | Wipe | | |

Remarks:

Comments:

| | | |
|---|---|---|
| Relinquished By: | Date/ Time | Received By: 1325 |
| Relinquished By: | Date/ Time | Received By: |
| Relinquished By: | Date/ Time | Received By Laboratory: |

LAB USE ONLY:
Fibertec project number:
Laboratory Tracking:
Temperature at Receipt:

COC Revision: April, 2006

TERMS & CONDITIONS ON BACK

Fibertec environmental services


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Fax: 810 220 3311


Chain of Custody # 90429

PAGE ___ of ___

Client Name:

Contact Person:

Project Name/ Number:

Purchase Order#

| Lab Sample # | Date | Time | Client Sample # | Client Sample Descriptor | MATRIX (SEE RIGHT CORNER FOR CODE) | # OF CONTAINERS | PRESERVED (Y/N) | PARAMETERS | | | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | |
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Turnaround

- ☐ 24 hour RUSH (surcharge applies)
- ☐ 48 hour RUSH (surcharge applies)
- ☐ 72 hour RUSH (surcharge applies)
- ☐ Standard (5-7 bus. days)
- ☐ Other: Specify

Matrix Code

| | | | |
|---|---|---|---|
| S | Soil | GW | Ground Water |
| W | Water | SW | Surface Water |
| A | Air | WW | Waste Water |
| O | Oil | X | Other: Specify |
| P | Wipe | | |

Comments:

| | | |
|---|---|---|
| Relinquished By: | Date/ Time | Received By: |
| Relinquished By: | Date/ Time | Received By: |
| Relinquished By: | Date/ Time | Received By Laboratory: |

LAB USE ONLY:
Fibertec project number:
Laboratory Tracking:
Temperature at Receipt:

COC Revision: April, 2006

TERMS & CONDITIONS ON BACK

**Appendix H**

**Analytical Reports #33275-1 AND #33366-1**
**and**
**NVLAP Accreditation #101510-0**

Fibertec
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services, inc.

# BULK SAMPLE ANALYTICAL REPORT

Fibertec IHS Project #33275-1
NVLAP Accreditation #101510-0

Client Name: ECT
Project Name: 100925 1200
Summary: 12 Submitted Bulk Samples, 11 Sample Layers Analyzed.

Date Sampled: 4/17/2013
Date Submitted: 4/19/2013
Date Analyzed: 4/26/2013

Client P.O. #: N/A
C.O.C. #: 90429, 90430

| Fibertec Sample No. | Client I.D. No. | Description / Location | Asbestos Type | Non-Asbestos Containing Portion | Analyst |
|---|---|---|---|---|---|
| A-1a | A-1a | Brown tabular material, floor tile. Layer 1 of 2. | Chrysotile 3% | Non-fibrous material 97% | CBD |
| A-1a | A-1a | Black rubbery material, floor tile mastic. Layer 2 of 2. | NAD | Non-fibrous material 97%<br>Cellulose fibers 3% | CBD |
| J-1F | J-1F | Brown fibrous material, debris. | NAD | Cellulose fibers 75%<br>Non-fibrous material 25% | CBD |
| J-2F | J-2F | Brown fibrous material, debris. | NAD | Cellulose fibers 75%<br>Non-fibrous material 25% | CBD |
| J-3F | J-3F | Brown fibrous material, debris. | NAD | Cellulose fibers 75%<br>Non-fibrous material 25% | CBD |
| K-1F | K-1F | Brown fibrous material, debris. | NAD | Non-fibrous material 50%<br>Cellulose fibers 50% | CBD |
| K-2F | K-2F | Brown fibrous material, debris. | NAD | Non-fibrous material 50%<br>Cellulose fibers 50% | CBD |

1914 Holloway Drive, Holt, Michigan 48842
Telephone: (517) 699-0345 Facsimile: (517) 699-0382

Fibertec
industrial hygiene
services, inc.

# BULK SAMPLE ANALYTICAL REPORT

Fibertec IHS Project #33275-1
NVLAP Accreditation #101510-0

Client Name: ECT
Project Name: 100925 1200
Summary: 12 Submitted Bulk Samples, 11 Sample Layers Analyzed.

Date Sampled: 4/17/2013
Date Submitted: 4/19/2013
Date Analyzed: 4/26/2013

Client P.O. #: N/A
C.O.C. #: 90429, 90430

| Fibertec Sample No. | Client I.D. No. | Description / Location | Asbestos Type | Non-Asbestos-Containing Portion | Analyst |
|---|---|---|---|---|---|
| K-3F | K-3F | Brown fibrous material, debris. | NAD | Non-fibrous material 50%<br>Cellulose fibers 50% | CBD |
| L-1Fa | L-1Fa | Brown fibrous material, debris. | NAD | Cellulose fibers 75%<br>Non-fibrous material 25% | CBD |
| L-1Fb | L-1Fb | Brown fibrous material, debris. | NAD | Cellulose fibers 75%<br>Non-fibrous material 25% | CBD |
| L-2F | L-2F | Brown fibrous material, debris. | NAD | Cellulose fibers 75%<br>Non-fibrous material 25% | CBD |
| | | | | | |
| | | | | | |
| | | | | | |

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Telephone: (517) 699-0345 Facsimile: (517) 699-0382

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services, inc.

***Comments***

Bulk samples are analyzed using the USEPA Test Method EPA/600/R-93/116. The constituent percent reported represents an estimate of the area percent of the component. The test report relates only to items tested. This report is not intended to be used as a product endorsement by NVLAP or any agency of the U.S. Government. Fine fibers like those in floor tile may not be discernible by this method. This report shall not be reproduced, except in full, without the written approval of the laboratory. Individual sample layers are homogeneous, unless otherwise noted. Test items were received in acceptable condition. Revision 4.0 dated 12/8/2010.

If no asbestos was/were detected in the sample/samples the acronym NAD (no asbestos detected) will appear in the Asbestos Type column of the report.

Approved Signatory: _____

Date: 4/30/2013

1914 Holloway Drive, Holt, Michigan 48842 Telephone: (517) 699-0345 Facsimile: (517) 699-0382

Fibertec
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services, inc.

# BULK SAMPLE ANALYTICAL REPORT

Fibertec IHS Project # 33366-1
NVLAP Accreditation #101510-0

Client Name: ECT
Project Name: 100925
Summary: 146 Submitted Bulk Samples, 120 Sample Layers Analyzed.

Date Sampled: 4/24/13, 5/1/13, 5/2/13
Date Submitted: 5/6/2013
Date Analyzed: 5/10/13, 5/12/13, 5/13/13

Client P.O. #: N/A
C.O.C. #: 122401-122416

| Fibertec Sample No. | Client I.D. No. | Description / Location | Asbestos Type | Non-Asbestos Containing Portion | Analyst |
|---|---|---|---|---|---|
| 1-1 | 1-1 | Black tabular material, Building A, roof-1. | NAD | Non-fibrous material 97%<br>Cellulose fibers 3% | CBD |
| 1-2 | 1-2 | Black tabular material, Building A, roof-2. | Chrysotile <1% | Non-fibrous material >99% | CBD |
| 1-3 | 1-3 | Black tabular material, Building A, roof-3. | NAD | Fibrous glass 70%<br>Non-fibrous material 30% | CBD |
| 2-1 | 2-1 | Black tabular material, Building C&D, roof-1. | Chrysotile 35% | Non-fibrous material 65% | CBD |
| 3-1 | 3-1 | Black tabular material, Building G, roof-1. | NAD | Non-fibrous material 90%<br>Cellulose fibers 10% | CBD |
| 3-2 | 3-2 | Black tabular material, Building G, roof-2. | NAD | Non-fibrous material 90%<br>Cellulose fibers 10% | CBD |
| 3-3 | 3-3 | Black tabular material, Building G, roof-3. | NAD | Fibrous glass 70%<br>Non-fibrous material 30% | CBD |

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Fibertec
industrial hygiene
services, inc.

# BULK SAMPLE ANALYTICAL REPORT

Fibertec IHS Project # 33366-1
NVLAP Accreditation #101510-0

Client Name: ECT
Project Name: 100925
Summary: 146 Submitted Bulk Samples, 120 Sample Layers Analyzed.

Date Sampled: 4/24/13, 5/1/13, 5/2/13
Date Submitted: 5/6/2013
Date Analyzed: 5/10/13, 5/12/13, 5/13/13

Client P.O. #: N/A
C.O.C. #: 122401-122416

| Fibertec Sample No. | Client I.D. No. | Description / Location | Asbestos Type | Non-Asbestos-Containing Portion | Analyst |
|---|---|---|---|---|---|
| 4-1 | 4-1 | Black tabular material, Building H, roof-1. | NAD | Non-fibrous material 95%<br>Cellulose fibers 5% | CBD |
| 4-2 | 4-2 | Black tabular material, Building H, roof-2. | NAD | Non-fibrous material 80%<br>Fibrous glass 20% | CBD |
| 4-3 | 4-3 | Black tabular material, Building H, roof-3. | NAD | Non-fibrous material 85%<br>Fibrous glass 15% | CBD |
| 5-1 | 5-1 | Black tabular material, Building I, roof-1. | NAD | Non-fibrous material 90%<br>Cellulose fibers 10% | CBD |
| 5-2 | 5-2 | Black tabular material, Building I, roof-2. | NAD | Non-fibrous material 85%<br>Fibrous glass 15% | CBD |
| 5-3 | 5-3 | Black tabular material, Building I, roof-3. | NAD | Non-fibrous material 85%<br>Fibrous glass 15% | CBD |
| 6-1 | 6-1 | Black tabular material, Building P&Q, roof-1. | Chrysotile 7% | Non-fibrous material 93% | CBD |

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# BULK SAMPLE ANALYTICAL REPORT

Fibertec IHS Project # 33366-1
NVLAP Accreditation #101510-0

Client Name: ECT
Project Name: 100925
Summary: 146 Submitted Bulk Samples, 120 Sample Layers Analyzed.

Date Sampled: 4/24/13, 5/1/13, 5/2/13
Date Submitted: 5/6/2013
Date Analyzed: 5/10/13, 5/12/13, 5/13/13

Client P.O. #: N/A
C.O.C. #: 122401-122416

| Fibertec Sample No. | Client I.D. No. | Description / Location | Asbestos Type | Non-Asbestos-Containing Portion | Analyst |
|---|---|---|---|---|---|
| 7-1 | 7-1 | Black tabular material, Building O, roof-1. | NAD | Non-fibrous material 85%<br>Fibrous glass 15% | CBD |
| 7-2 | 7-2 | Black tabular material, Building O, roof-2. | NAD | Non-fibrous material 85%<br>Fibrous glass 15% | CBD |
| 7-3 | 7-3 | Black tabular material, Building O, roof-3. | NAD | Non-fibrous material 85%<br>Fibrous glass 15% | CBD |
| 8-1 | 8-1 | Black tabular material, Building J, roof-1. | NAD | Non-fibrous material 85%<br>Chrysotile 15% | CBD |
| 9-1 | 9-1 | Black tabular material, Building K, roof-1. | NAD | Fibrous glass 70%<br>Non-fibrous material 30% | CBD |
| 9-2 | 9-2 | Black tabular material, Building K, roof-2. | NAD | Fibrous glass 70%<br>Non-fibrous material 30% | CBD |
| 9-3 | 9-3 | Black tabular material, Building K, roof-3. | NAD | Fibrous glass 70%<br>Non-fibrous material 30% | CBD |

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Fibertec IHS Project # 33366-1
NVLAP Accreditation #101510-0

Client Name: ECT
Project Name: 100925
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Date Sampled: 4/24/13, 5/1/13, 5/2/13
Date Submitted: 5/6/2013
Date Analyzed: 5/10/13, 5/12/13, 5/13/13

Client P.O. #: N/A
C.O.C. #: 122401-122416

| Fibertec Sample No. | Client I.D. No. | Description / Location | Asbestos Type | Non-Asbestos-Containing Portion | Analyst |
|---|---|---|---|---|---|
| 10-1 | 10-1 | Black tabular material, Building R, roof-1. | NAD | Non-fibrous material 80%<br>Fibrous glass 20% | CBD |
| 10-2 | 10-2 | Black tabular material, Building R, roof-2. | NAD | Non-fibrous material 80%<br>Fibrous glass 20% | CBD |
| 10-3 | 10-3 | Black tabular material, Building R, roof-3. | NAD | Non-fibrous material 80%<br>Fibrous glass 20% | CBD |
| 11-1 | 11-1 | Black tabular material, Building U, roof-1. | NAD | Non-fibrous material 85%<br>Cellulose fibers 15% | CBD |
| 11-2 | 11-2 | Black tabular material, Building U, roof-2. | NAD | Non-fibrous material 75%<br>Fibrous glass 25% | CBD |
| 11-3 | 11-3 | Black tabular material, Building U, roof-3. | NAD | Non-fibrous material 80%<br>Fibrous glass 20% | CBD |
| 12-1 | 12-1 | Black tabular material, Building V&X, roof-1. | Chrysotile 7% | Non-fibrous material 93% | CBD |

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Date Submitted: 5/6/2013
Date Analyzed: 5/10/13, 5/12/13, 5/13/13

Client P.O. #: N/A
C.O.C. #: 122401-122416

| Fibertec Sample No. | Client I.D. No. | Description / Location | Asbestos Type | Non-Asbestos-Containing Portion | Analyst |
|---|---|---|---|---|---|
| 13-1 | 13-1 | Black tabular material, Building N, roof-1. | NAD | Cellulose fibers 60%<br>Non-fibrous material 40% | CBD |
| 13-2 | 13-2 | Black tabular material, Building N, roof-2. | NAD | Fibrous glass 60%<br>Non-fibrous material 40% | CBD |
| 13-3 | 13-3 | Black tabular material, Building N, roof-3. | NAD | Cellulose fibers 60%<br>Non-fibrous material 40% | CBD |
| 14-1 | 14-1 | Black tabular material, Building S&T, roof-1. | NAD | Non-fibrous material 70%<br>Fibrous glass 30% | CBD |
| 14-2 | 14-2 | Black tabular material, Building S&T, roof-2. | NAD | Non-fibrous material 70%<br>Fibrous glass 30% | CBD |
| 14-3 | 14-3 | Black tabular material, Building S&T, roof-3. | NAD | Non-fibrous material 70%<br>Fibrous glass 30% | CBD |
| 15-1 | 15-1 | Black tabular material, Power House, roof-1. | NAD | Non-fibrous material 85%<br>Wollastonite 15% | CBD |

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Date Submitted: 5/6/2013
Date Analyzed: 5/10/13, 5/12/13, 5/13/13

Client P.O. #: N/A
C.O.C. #: 122401-122416

| Fibertec Sample No. | Client I.D. No. | Description / Location | Asbestos Type | Non-Asbestos-Containing Portion | Analyst |
|---|---|---|---|---|---|
| 15-2 | 15-2 | Black tabular material, Power House, roof-2. | NAD | Non-fibrous material 85% Wollastonite 15% | CBD |
| 15-3 | 15-3 | Black tabular material, Power House, roof-3. | NAD | Non-fibrous material 85% Wollastonite 15% | CBD |
| 16-1 | 16-1 | Tan tabular material, Building O&A, floor tile. Layer 1 of 2. | NAD | Non-fibrous material 97% Cellulose fibers 3% | CBD |
| 16-1 | 16-1 | Brown rubbery material, Building O&A, floor tile mastic. Layer 2 of 2. | NAD | Non-fibrous material 97% Cellulose fibers 3% | CBD |
| 16-2 | 16-2 | Tan tabular material, Building O&A, floor tile. Layer 1 of 2. | Chrysotile 3% | Non-fibrous material 97% | CBD |
| 16-2 | 16-2 | Black rubbery material, Building O&A, floor tile mastic. Layer 2 of 2. | NAD | Non-fibrous material 97% Cellulose fibers 3% | CBD |
| 17-1 | 17-1 | Tan granular material, Building N-1, debris-1. | NAD | Non-fibrous material 97% Cellulose fibers 3% | CBD |

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Date Analyzed: 5/10/13, 5/12/13, 5/13/13

Client P.O. #: N/A
C.O.C. #: 122401-122416

| Fibertec Sample No. | Client I.D. No. | Description / Location | Asbestos Type | Non-Asbestos-Containing Portion | Analyst |
|---|---|---|---|---|---|
| 17-2 | 17-2 | Tan granular material, Building N-1, debris-2. | NAD | Non-fibrous material 97%<br>Cellulose fibers 3% | CBD |
| 17-3 | 17-3 | Tan granular material, Building N-1, debris-3. | NAD | Non-fibrous material 97%<br>Cellulose fibers 3% | CBD |
| 18-1 | 18-1 | White fibrous material, Building L-2, debris-1. | Chrysotile 35% | Non-fibrous material 65% | CBD |
| 19-1 | 19-1 | Gray fibrous material, Building L-2, ceiling tile-1. | NAD | Cellulose fibers 45%<br>Fibrous glass 35%<br>Non-fibrous material 20% | CBD |
| 19-2 | 19-2 | Gray fibrous material, Building L-2, ceiling tile-2. | NAD | Cellulose fibers 45%<br>Fibrous glass 35%<br>Non-fibrous material 20% | CBD |
| 19-3 | 19-3 | Gray fibrous material, Building L-2, ceiling tile-3. | NAD | Cellulose fibers 45%<br>Fibrous glass 35%<br>Non-fibrous material 20% | CBD |
| 20-1 | 20-1 | Brown fibrous material, Building P&Q, debris-1. | NAD | Cellulose fibers 97%<br>Non-fibrous material 3% | CBD |

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Date Submitted: 5/6/2013
Date Analyzed: 5/10/13, 5/12/13, 5/13/13

Client P.O. #: N/A
C.O.C. #: 122401-122416

| Fibertec Sample No. | Client I.D. No. | Description / Location | Asbestos Type | Non-Asbestos-Containing Portion | Analyst |
|---|---|---|---|---|---|
| 20-2 | 20-2 | Brown granular material, Building P&Q, debris-2. | NAD | Non-fibrous material 80%<br>Cellulose fibers 20% | CBD |
| 20-3 | 20-3 | Brown fibrous material, Building P&Q, debris-3. | NAD | Cellulose fibers 97%<br>Non-fibrous material 3% | CBD |
| 21-1 | 21-1 | Tan tabular material, Building P, Office floor tile-1. Layer 1 of 2. | Chrysotile 3% | Non-fibrous material 97% | CBD |
| 21-1 | 21-1 | Black rubbery material, Building P Office floor tile mastic-1. Layer 2 of 2. | NAD | Non-fibrous material 97%<br>Cellulose fibers 3% | CBD |
| 23-1 | 23-1 | Green tabular material, Building L-2, floor tile-1. Layer 1 of 2. | NAD | Non-fibrous material 97%<br>Cellulose fibers 3% | CBD |
| 23-1 | 23-1 | Tan rubbery material, Building L-2, floor tile mastic-1. Layer 2 of 2. | NAD | Non-fibrous material 97%<br>Cellulose fibers 3% | CBD |
| 23-2 | 23-2 | Green tabular material, Building L-2, floor tile-2. Layer 1 of 2. | NAD | Non-fibrous material 97%<br>Cellulose fibers 3% | CBD |

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Client P.O. #: N/A
C.O.C. #: 122401-122416

| Fibertec Sample No. | Client I.D. No. | Description / Location | Asbestos Type | Non-Asbestos-Containing Portion | Analyst |
|---|---|---|---|---|---|
| 23-2 | 23-2 | Tan rubbery material, Building L-2, floor tile mastic-2. Layer 2 of 2. | NAD | Non-fibrous material 97%<br>Cellulose fibers 3% | CBD |
| 23-3 | 23-3 | Green tabular material, Building L-2, floor tile-3. Layer 1 of 2. | NAD | Non-fibrous material 97%<br>Cellulose fibers 3% | CBD |
| 23-3 | 23-3 | Tan rubbery material, Building L-2, floor tile mastic-3. Layer 2 of 2. | NAD | Non-fibrous material 97%<br>Cellulose fibers 3% | CBD |
| 24-1 | 24-1 | Brown fibrous material, Building N-1, pipe cover. | NAD | Synthetic fibers 97%<br>Non-fibrous material 3% | CBD |
| 25-1 | 25-1 | Gray fibrous material, Building P, ceiling tile-2-1. Layer 1 of 2. | NAD | Cellulose fibers 50%<br>Fibrous glass 30%<br>Non-fibrous material 20% | CBD |
| 25-2 | 25-2 | Gray fibrous material, Building P, ceiling tile-2-2. Layer 2 of 2. | NAD | Cellulose fibers 50%<br>Fibrous glass 30%<br>Non-fibrous material 20% | CBD |
| 25-3 | 25-3 | Gray fibrous material, Building P, ceiling tile-2-3. | NAD | Cellulose fibers 50%<br>Fibrous glass 30%<br>Non-fibrous material 20% | CBD |

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Client P.O. #: N/A
C.O.C. #: 122401-122416

| Fibertec Sample No. | Client I.D. No. | Description / Location | Asbestos Type | Non-Asbestos-Containing Portion | Analyst |
|---|---|---|---|---|---|
| 26-1 | 26-1 | Brown fibrous material, Building P, ceiling tile-1-1. | NAD | Cellulose fibers 97%<br>Non-fibrous material 3% | CBD |
| 26-2 | 26-2 | Brown fibrous material, Building P, ceiling tile-1-2. | NAD | Cellulose fibers 97%<br>Non-fibrous material 3% | CBD |
| 26-3 | 26-3 | Brown fibrous material, Building P, ceiling tile-1-3. | NAD | Cellulose fibers 97%<br>Non-fibrous material 3% | CBD |
| 27-1 | 27-1 | Brown fibrous material, Building R, pipe cover. | Chrysotile 30% | Non-fibrous material 70% | CBD |
| 28-1 | 28-1 | Gray fibrous material, Building R-2, ceiling tile. | NAD | Cellulose fibers 50%<br>Fibrous glass 30%<br>Non-fibrous material 20% | CBD |
| 28-2 | 28-2 | Gray fibrous material, Building R-2, ceiling tile. | NAD | Cellulose fibers 50%<br>Fibrous glass 30%<br>Non-fibrous material 20% | CBD |
| 28-3 | 28-3 | Gray fibrous material, Building R-2, ceiling tile. | NAD | Cellulose fibers 50%<br>Fibrous glass 30%<br>Non-fibrous material 20% | CBD |

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Date Analyzed: 5/10/13, 5/12/13, 5/13/13

Client P.O. #: N/A
C.O.C. #: 122401-122416

| Fibertec Sample No. | Client I.D. No. | Description / Location | Asbestos Type | Non-Asbestos-Containing Portion | Analyst |
|---|---|---|---|---|---|
| 29-1 | 29-1 | Tan tabular material, Building R-2, floor tile. Layer 1 of 2. | NAD | Non-fibrous material 97%<br>Cellulose fibers 3% | CBD |
| 29-1 | 29-1 | Tan rubbery material, Building R-2 floor tile mastic. Layer 2 of 2. | NAD | Non-fibrous material 97%<br>Cellulose fibers 3% | CBD |
| 29-2 | 29-2 | Tan tabular material, Building R-2, floor tile. Layer 1 of 2. | NAD | Non-fibrous material 97%<br>Cellulose fibers 3% | CBD |
| 29-2 | 29-2 | Tan rubbery material, Building R-2 floor tile mastic. Layer 2 of 2. | NAD | Non-fibrous material 97%<br>Cellulose fibers 3% | CBD |
| 29-3 | 29-3 | Tan tabular material, Building R-2, floor tile. Layer 1 of 2. | NAD | Non-fibrous material 97%<br>Cellulose fibers 3% | CBD |
| 29-3 | 29-3 | Tan rubbery material, Building R-2 floor tile mastic. Layer 2 of 2. | NAD | Non-fibrous material 97%<br>Cellulose fibers 3% | CBD |
| 30-1 | 30-1 | Gray granular material, Building U&T, debris-1. | NAD | Non-fibrous material 95%<br>Cellulose fibers 5% | CBD |

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Client P.O. #: N/A
C.O.C. #: 122401-122416

| Fibertec Sample No. | Client I.D. No. | Description / Location | Asbestos Type | Non-Asbestos-Containing Portion | Analyst |
|---|---|---|---|---|---|
| 30-2 | 30-2 | Gray granular material, Building U&T, debris-2. | NAD | Fibrous glass 97%<br>Non-fibrous material 3% | CBD |
| 30-3 | 30-3 | Gray granular material, Building U&T, debris-3. | NAD | Non-fibrous material 90%<br>Fibrous glass 10% | CBD |
| 31-1 | 31-1 | Gray granular material, Power House-2, debris-1. Layer 1 of 2. | NAD | Non-fibrous material 90%<br>Fibrous glass 10% | CBD |
| 31-2 | 31-2 | White granular material, Power House-2, debris-3. Layer 2 of 2. | Amosite 15% | Non-fibrous material 85% | CBD |
| 32-1 | 32-1 | Pink fibrous material, Power House-exterior insulation, furnace-1. | ~~NAD~~<br>Chrysotile 10% | Non-fibrous material 90%<br>Chrysotile 10% | JAW |
| 33-1 | 33-1 | Brown non-fibrous material, Power House-1, debris-1. | NAD | #VALUE!<br>Fibrous glass <1% | JAW |
| 33-2 | 33-2 | White fibrous material, Power House-1, debris-2. | Chrysotile 4% | Non-fibrous material 96% | JAW |

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Client P.O. #: N/A
C.O.C. #: 122401-122416

| Fibertec Sample No. | Client I.D. No. | Description / Location | Asbestos Type | Non-Asbestos-Containing Portion | Analyst |
|---|---|---|---|---|---|
| 34-1 | 34-1 | White powdery material, Power House, gen 8" pipe insulation-1. | NAD Label Asbestos PAM | Non-fibrous material 95% Cellulose fibers 5% | JAW |
| 34-2 | 34-2 | White powdery material, Power House, gen 8" pipe insulation-2. | NAD Label Asbestos PAM | Non-fibrous material 92% Cellulose fibers 8% | JAW |
| 34-3 | 34-3 | White powdery material, Power House, gen 8" pipe insulation-3. | NAD Label Asbestos PAM | Non-fibrous material 97% Cellulose fibers 3% | JAW |
| 35-1 | 35-1 | White powdery material, Power House, gen 24" pipe insulation-1. | NAD | Non-fibrous material 98% Cellulose fibers 2% | JAW |
| 35-2 | 35-2 | White powdery material, Power House, gen 24" pipe insulation-2. Layer 1 of 2. | NAD | Non-fibrous material 96% Cellulose fibers 4% | JAW |
| 35-2 | 35-2 | Brown fibrous material, Power House, gen 24" pipe insulation-2. Layer 2 of 2. | Amosite 10% | Non-fibrous material 90% | JAW |
| 36-1 | 36-1 | Gray granular material, Power House2, tank exterior coating-1. | NAD | Non-fibrous material 96% Fibrous glass 4% | CBD |

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Client P.O. #: N/A
C.O.C. #: 122401-122416

| Fibertec Sample No. | Client I.D. No. | Description / Location | Asbestos Type | Non-Asbestos-Containing Portion | Analyst |
|---|---|---|---|---|---|
| 36-2 | 36-2 | Gray granular material, Power House2, tank exterior coating-2. | NAD | Non-fibrous material 90%<br>Fibrous glass 10% | CBD |
| 36-3 | 36-3 | Gray granular material, Power House2, tank exterior coating-3. | NAD | Non-fibrous material 90%<br>Fibrous glass 10% | CBD |
| 37-1 | 37-1 | Tan granular material, Power House, fire brick-1. | NAD | Non-fibrous material 97%<br>Cellulose fibers 3% | CBD |
| 37-2 | 37-2 | Gray granular material, Power House, fire brick-2. | NAD | Non-fibrous material 97%<br>Cellulose fibers 3% | CBD |
| 37-3 | 37-3 | Gray granular material, Power House, fire brick-3. | NAD | Non-fibrous material 97%<br>Cellulose fibers 3% | CBD |
| 38-1 | 38-1 | Brown fibrous material, Power House, insulation behind steel covers. | Chrysotile 45% | Cellulose fibers 50%<br>Non-fibrous material 5% | CBD |
| 39-1 | 39-1 | Gray granular material, Power House 1&2, pipe insulation-1. | NAD | Non-fibrous material 85%<br>Fibrous glass 15% | CBD |

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Client P.O. #: N/A
C.O.C. #: 122401-122416

| Fibertec Sample No. | Client I.D. No. | Description / Location | Asbestos Type | Non-Asbestos-Containing Portion | Analyst |
|---|---|---|---|---|---|
| 39-2 | 39-2 | Gray granular material, Power House 1&2, pipe insulation-2. | NAD | Non-fibrous material 85%<br>Fibrous glass 15% | CBD |
| 39-3 | 39-3 | Gray granular material, Power House 1&2, pipe insulation-3. | NAD | Non-fibrous material 85%<br>Fibrous glass 15% | CBD |
| 40-1 | 40-1 | Gray granular material, Power House, second heat coil, exterior -1. | Chrysotile 15% | Non-fibrous material 85% | CBD |
| 41-1 | 41-1 | Gray granular material, Power House-1, small tanks cover-1. | NAD | Fibrous glass 97%<br>Non-fibrous material 3% | CBD |
| 41-2 | 41-2 | Tan fibrous material, Power House-1, small tanks cover-2. | NAD | Fibrous glass 97%<br>Non-fibrous material 3% | CBD |
| 41-3 | 41-3 | Tan fibrous material, Power House-1, small tanks cover-3. | NAD | Fibrous glass 97%<br>Non-fibrous material 3% | CBD |
| 42-1 | 42-1 | Gray granular material, Power House, furnace brick/mortar-1. | NAD | Non-fibrous material 95%<br>Cellulose fibers 5% | CBD |

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Project Name: 100925
Summary: 146 Submitted Bulk Samples, 120 Sample Layers Analyzed.

Date Sampled: 4/24/13, 5/1/13, 5/2/13
Date Submitted: 5/6/2013
Date Analyzed: 5/10/13, 5/12/13, 5/13/13

Client P.O. #: N/A
C.O.C. #: 122401-122416

| Fibertec Sample No. | Client I.D. No. | Description / Location | Asbestos Type | Non-Asbestos-Containing Portion | Analyst |
|---|---|---|---|---|---|
| 42-2 | 42-2 | Gray granular material, Power House, furnace brick/mortar-2. | Chrysotile 5% | Non-fibrous material 95% | CBD |
| 43-1 | 43-1 | White fibrous material, Power House, gen+48, debris-1. | Amosite 12% | Non-fibrous material 88% | JAW |
| 44-1 | 44-1 | White tabular material, Power House, heat hood cover-1. | NAD | Non-fibrous material 90%<br>Fibrous glass 10% | JAW |
| 44-2 | 44-2 | White tabular material, Power House, heat hood cover-2. | NAD | Non-fibrous material 87%<br>Fibrous glass 13% | JAW |
| 44-3 | 44-3 | White tabular material, Power House, heat hood cover-3. | NAD | Non-fibrous material 88%<br>Fibrous glass 12% | JAW |
| 45-1 | 45-1 | Brown fibrous material, Power House-2, tank exterior fiber coating-1. | NAD | Fibrous glass 85%<br>Non-fibrous material 15% | JAW |
| 45-2 | 45-2 | White fibrous material, Power House-2, tank exterior fiber coating-2. | NAD | Fibrous glass 65%<br>Non-fibrous material 30%<br>Cellulose fibers 5% | JAW |

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# BULK SAMPLE ANALYTICAL REPORT

Fibertec IHS Project # 33366-1
NVLAP Accreditation #101510-0

Client Name: ECT
Project Name: 100925
Summary: 146 Submitted Bulk Samples, 120 Sample Layers Analyzed.

Date Sampled: 4/24/13, 5/1/13, 5/2/13
Date Submitted: 5/6/2013
Date Analyzed: 5/10/13, 5/12/13, 5/13/13

Client P.O. #: N/A
C.O.C. #: 122401-122416

| Fibertec Sample No. | Client I.D. No. | Description / Location | Asbestos Type | Non-Asbestos-Containing Portion | Analyst |
|---|---|---|---|---|---|
| 45-3 | 45-3 | Brown fibrous material, Power House-2, tank exterior fiber coating-3. | NAD | Fibrous glass 87%<br>Non-fibrous material 10%<br>Cellulose fibers 3% | JAW |
| 46-1 | 46-1 | Brown fibrous material, Power House, gasket steam coils-1. | Amosite 10% | Non-fibrous material 90% | JAW |
| 47-1 | 47-1 | White tabular material, Power House, large tank lining-1. | NAD | Non-fibrous material 97%<br>Cellulose fibers 3% | JAW |
| 47-2 | 47-2 | White tabular material, Power House, large tank lining-2. | NAD | Non-fibrous material 96%<br>Cellulose fibers 4% | JAW |
| 47-3 | 47-3 | White tabular material, Power House, large tank lining-3. | NAD | Non-fibrous material 96%<br>Cellulose fibers 4% | JAW |
| 48-1 | 48-1 | Black granular material, Power House, heating coil, interior lining-1. | NAD | Non-fibrous material 98%<br>Cellulose fibers 2% | JAW |
| 48-2 | 48-2 | Black granular material, Power House, heating coil, interior lining-2. | NAD | Non-fibrous material 98%<br>Cellulose fibers 2% | JAW |

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# BULK SAMPLE ANALYTICAL REPORT

Fibertec IHS Project # 33366-1
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Client Name: ECT
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Date Sampled: 4/24/13, 5/1/13, 5/2/13
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Client P.O. #: N/A
C.O.C. #: 122401-122416

| Fibertec Sample No. | Client I.D. No. | Description / Location | Asbestos Type | Non-Asbestos-Containing Portion | Analyst |
|---|---|---|---|---|---|
| 48-3 | 48-3 | Black granular material, Power House, heating coil, interior lining-3. | NAD | Non-fibrous material >99% Cellulose fibers <1% | JAW |
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***Comments***

Bulk samples are analyzed using the USEPA Test Method EPA/600/R-93/116. The constituent percent reported represents an estimate of the area percent of the component. The test report relates only to items tested. This report is not intended to be used as a product endorsement by NVLAP or any agency of the U.S. Government. Fine fibers like those in floor tile may not be discernible by this method. This report shall not be reproduced, except in full, without the written approval of the laboratory. Individual sample layers are homogeneous, unless otherwise noted. Test items were received in acceptable condition. Revision 4.0 dated 12/8/2010.

If no asbestos was/were detected in the sample/samples the acronym NAD (no asbestos detected) will appear in the Asbestos Type column of the report.

Approved Signatory: Cory Dain

Date: 5/15/2013

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